

EVERGLADES AGRICULTURAL AREA REGIONAL FEASIBILITY STUDY

APPENDIX M

IMPLEMENTATION SCHEDULES, PROBABLE PLANNING-LEVEL OPINION OF COST, AND CASH FLOW ANALYSES FOR ALTERNATIVES 1, 2, 3, AND 5

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EAA REGIONAL FEASIBILITY STUDY
South Florida Water Management District
ADA Project No. C110-05-003
PROBABLE PLANNING-LEVEL OPINION OF CAPITAL COST
ALTERNATIVE 1

DATE: 10/03/05

DESIGN PHASE

ITEM NO.	DESCRIPTION	UOM	COST	QUANTITY	TOTAL
1	Alternative 1 Canal	ls	\$1,454,040	1.00	\$1,454,040
2	Sam Senter (OC-B1)	ls	\$2,676,939	1.00	\$2,676,939
3	Ocean Canal	ls	\$2,008,273	1.00	\$2,008,273
4	Hillsboro Canal	ls	\$484,123	1.00	\$484,123
5	Cross Canal	ls	\$5,537,316	1.00	\$5,537,316
6	North New River Canal	ls	\$8,138,772	1.00	\$8,138,772
DESIGN PHASE TOTAL					\$20,299,464

CONSTRUCTION COST

ITEM NO.	DESCRIPTION	UOM	COST	QUANTITY	TOTAL
1	Alternative 1 Canal	ls	\$7,270,202	1.00	\$7,270,202
2	*Sam Senter (OC-B1)	ls	\$16,290,497	1.00	\$16,290,497
3	Ocean Canal	ls	\$10,041,364	1.00	\$10,041,364
4	Hillsboro Canal	ls	\$2,420,616	1.00	\$2,420,616
5	Cross Canal	ls	\$27,686,581	1.00	\$27,686,581
6	North New River Canal	ls	\$40,693,859	1.00	\$40,693,859
02070-1090	Equip. demolition, 30" farm pumps	ea	\$10,000.00	20.00	\$200,000
02240-100	Dewatering	cy	\$0.25	27,750.00	\$6,938
02480-0010	Rip-rap, random, machine placed for slope protection	cy	\$40.39	960.00	\$38,774
02500-0020	Bulkheads, reinforced concrete, 12' high	lf	\$289.29	192.00	\$55,544
	7' X 7' Gate (Str. S-5AE)	ea	\$375,000	2.00	\$750,000
	9' X 14' Gate (Str. S-155A)	ea	\$425,000	1.00	\$425,000
	20'x10.5' Gate (West Palm Beach and Hillsboro canals)	ea	\$2,000,000	5.00	\$10,000,000
CONSTRUCTION COST TOTAL					\$115,879,374

COMPARTMENT B/C

ITEM NO.	DESCRIPTION	UOM	COST	QUANTITY	TOTAL
15230-501	Compartment B Pump Stations (2-1600 cfs P.S.)	cfs	\$12,000	3,200.00	\$38,400,000
	**Compartment B works	ls	\$58,020,000	1.00	\$58,020,000
	Compartment C works	ls	\$47,073,000	1.00	\$47,073,000
COMPARTMENT B/C TOTAL					\$143,493,000

LAND ACQUISITION

ITEM NO.	DESCRIPTION	UOM	COST	QUANTITY	TOTAL
1	Alternative 1 Canal	ls	\$2,262,027	1.00	\$2,262,027
2	Sam Senter (OC-B1)	ls	\$3,931,459	1.00	\$3,931,459
3	Ocean Canal	ls	\$1,197,246	1.00	\$1,197,246
4	Hillsboro Canal	ls	\$322,765	1.00	\$322,765
5	Cross Canal	ls	\$2,473,867	1.00	\$2,473,867
6	North New River Canal	ls	\$5,682,324	1.00	\$5,682,324
LAND ACQUISITION TOTAL					\$15,869,688

TOTAL PROBABLE COST

\$295,541,526

* Sam Senter cost includes US 98 Bridge (4 lane divided)

** Compartment B works cost includes the structure removal of G-336G located in L-6 canal



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EAA REGIONAL FEASIBILITY STUDY
South Florida Water Management District
ADA Project No. C110-05-003
CUT AND FILL COST
ALTERNATIVE 1

DATE: 10/03/05

The costs presented below are a part of the total cost for **Alternative 1**. These data are presented as additional information to assist readers in understanding cut and fill unit cost.

ITEM NO.	DESCRIPTION	EXCAVATION COST	VOLUME (CY)	COST/CY
1	Alternative 1 Canal	\$4,992,931	1,593,448	\$3.13
2	Sam Senter (OC-B1)	\$6,724,350	2,278,307	\$2.95
3	Ocean Canal	\$4,120,129	1,295,327	\$3.18
4	Hillsboro Canal	\$1,634,556	505,608	\$3.23
5	Cross Canal	\$12,464,032	4,100,081	\$3.04
6	North New River Canal	\$22,026,977	6,778,943	\$3.25

TOTAL	\$51,962,976	16,551,714	\$3.13
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Average cost/CY

OPERATION AND MAINTENANCE COST

Alternative 1 (2006 cost) **\$8,573,512**

* For total cost per canal see summary of Probable Planning-Level opinion of Capital Cost



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South Florida Water Management District
ADA Project No. C110-05-003
PROBABLE PLANNING-LEVEL OPINION OF CAPITAL COST
ALT_1 CANAL

www.adaengineering.com

DATE: 10/03/05

Construction Cost						
Item No.	Description	UOM	Soft Cost (%)	Cost	Quantity	Total
01050-001	Temporary facilities	mo		\$2,500.00	0.00	\$0.00
01200-001	Rental-Crusher, Incl mob, de-mob and operation	ea		\$40,000.00	0.00	\$0.00
01200-001	Field Vehicles	ea		\$23,750.00	0.00	\$0.00
01250-001	Survey for Stage Monitor Set-up	ls		\$35,000.00	0.00	\$0.00
02060-0450	Site demo, pipe removal, sewer/water, no exc, 48"-6"0	cy		\$1.01	0.00	\$0.00
02070-1090	Equip, dml, 30" vertical turbine pump, motor, complete	ea		\$10,000.00	0.00	\$0.00
02170-0050	Saw cutting, concrete walls, rod reinforced, perim of depth	lf		\$9.46	0.00	\$0.00
02220-001	Remove Water structure	ea		\$50,000.00	0.00	\$0.00
02220-110	Building Demolition	sf		\$25.00	0.00	\$0.00
02230-100	Clearing and Grubbing	Ac		\$1,200.00	119.42	\$143,302.34
02230-100	Light Clearing	Ac		\$600.00	0.00	\$0.00
02230-102	Clear and Grub Levee Area	Ac		\$515.00	0.00	\$0.00
02230-200	Herbicide Treatment (for removal of exotic vegetation)	Ac		\$240.00	0.00	\$0.00
02230-300	Tree removal more 600 Tree/Ac	Ac		\$3,650.00	2.39	\$8,717.56
02230-310	Seeding and Mulching and Watering	Ac		\$1,200.00	0.00	\$0.00
02230-311	Seeding and Grassing	Ac		\$2,000.00	0.00	\$0.00
02240-0150	Dewatering, pumping 8 hr, unattended, 8" centrifugal pump	ea		\$238.49	0.00	\$0.00
02240-0160	Dewatering, pumping 8 hr, unattended, add per additional 8"pump	day		\$110.55	0.00	\$0.00
02240-100	Dewatering	cy		\$0.25	0.00	\$0.00
02300-100	Earthwork Construction to supply water to inflow canal	cy		\$4.00	0.00	\$0.00
02305-100	Mobilization/Demo of offices/equipment/personnel	LS		\$250,000.00	0.00	\$0.00
02315-100	Excavation (heavy) Includes Entrance Canal	cy		\$3.50	159,344.79	\$557,706.77
02315-101	Excavation (light) Includes Entrance Canal	cy		\$2.55	318,689.58	\$812,658.44
02315-320	Compact Spoil	cy		\$1.00	1,052,333.33	\$1,052,333.33
02315-416	Drilling and Blasting Canal	cy		\$1.00	318,689.58	\$318,689.58
02315-424	Excavate Existing Spoil	cy		\$1.00	159,344.79	\$159,344.79
02315-432	Peat Excavation	cy		\$0.60	318,689.58	\$191,213.75
02315-462	Cap rock Excavation	cy		\$2.00	318,689.58	\$637,379.17
02315-510	Place Spoil	cy		\$1.00	0.00	\$0.00
02320-0030	Backfill, FE loader, bulk up to 150' haul, no compaction	cy		\$1.40	0.00	\$0.00
02320-0030	Backfill, dozer backfill, bulk, up to 150' haul, no compaction	cy		\$1.00	0.00	\$0.00
02340-0010	Bedding, crushed stone 3/4" to 1/2"	cy		\$16.50	0.00	\$0.00
02340-0010	9" Bedding	cy		\$26.05	0.00	\$0.00
02360-0020	Compaction, sheepsfoot of wobbly wheel roller, 24" lift, select fill	cy		\$0.14	0.00	\$0.00
02360-0030	Compaction, Vibratory plate, 8" lifts, Subgrade	cy		\$1.15	0.00	\$0.00
02360-0031	Compaction, vibratory plate, 24" lifts, subgrade	cy		\$0.31	175,388.89	\$54,370.56
02360-0032	Compaction, vibratory plate, 24" lifts, Backfill	cy		\$0.31	175,388.89	\$54,370.56
02360-0040	Compaction, Vibratory plate, 8" lifts, Bedding	cy		\$1.15	0.00	\$0.00
02370-0050	Drilling and Blasting, bulk drilling and blasting, can vary greatly, avg	cy		\$2.00	0.00	\$0.00
02390-0010	Backhoe Excavation and Load Blasted Material	cy		\$1.56	318,689.58	\$497,155.75
02396-0050	Excavating and Loading Road, FE Loader , whl mtd, 1.5	cy		\$2.25	0.00	\$0.00
02396-0050	Excavate and Spread loose, 300' haul, FE LDR, whl mtd, 1.5 cy cap	cy		\$2.29	0.00	\$0.00
02430-0010	Fill, spread dumped matl, by dozer, no compaction	cy		\$1.03	122,772.22	\$126,455.39
02430-0030	Fill, spread f, from stockpile w/2-1/2 cy FE LDR, 130 HP, 300'haul	cy		\$1.54	0.00	\$0.00
02450-0010	Excavate Trench, cont ftg, no sht or dewater, 4'-6" D, 1.5 cy hyd bac	cy		\$1.66	0.00	\$0.00
02460-0010	Hauling, LCY, no loading, 16cy dump truck, 4 mile RT, 1.6 lds/hr	cy		\$2.84	52,616.67	\$149,431.33
02460-0020	Hauling, LCY, no loading, 12 cy Dump Truck, IDM, RT, .60 LDS/hr	cy		\$11.42	0.00	\$0.00
02460-0900	Loading trucks FE LDR, 3cy	cy		\$1.19	52,616.67	\$62,613.83
02470-0020	Soil Stabilization, geotex fabric, woven, HD, 600lb tensile set	cy		\$1.82	175,388.89	\$319,207.78
02480-0010	Rip-rap, random, machine placed for slope protection	cy		\$40.39	0.00	\$0.00
02500-0020	Bulkheads, reinforced concrete, 12' high	lf		\$289.29	0.00	\$0.00
02560-0990	Drainage, 8' X 8' precast Box culvert, 8' Section	lf		\$278.71	0.00	\$0.00
02630-100	Major Culvert Replacement	ea		\$100,000.00	0.00	\$0.00
02630-101	Minor Culvert Replacement	ea		\$35,000.00	0.00	\$0.00
02630-200	Internal Gated STR-1670 cfs	ea		\$82,000.00	0.00	\$0.00
02630-201	Internal Gated STR-1200 cfs	ea		\$65,000.00	0.00	\$0.00
02720-200	Temporary Construction (Shoo-fly: temporary by-pass)	ft		\$100.00	0.00	\$0.00
02720-200B	New Agr Bridges	EA		\$500,000.00	0.00	\$0.00
02740-310	Approach Reconstruction	ft		\$200.00	0.00	\$0.00
02840-0310	Seeding, mechanical seeding, 215 lb/acre	Ac		\$671.16	16.72	\$11,220.86
02840-0311	Hydro Seeding	Ac		\$2,130.00	0.00	\$0.00
02840-910	Traffic Control	LS		\$40,000.00	0.00	\$0.00
02850-100	Bridge Extension	sf		\$500.00	0.00	\$0.00

Item No.	Description	UOM	Soft Cost (%)	Cost	Quantity	Total
02850-102	Culvert Bridge	ls		\$750,000.00	0.00	\$0.00
02850-210A	Bridge Construction	sf		\$120.00	0.00	\$0.00
03300-001	12' X 22' precast concrete bldg + delivery	ea		\$25,902.13	0.00	\$0.00
05090-0010	Floor grating, alum, up to 300 sf, 1.5"1/8 bar, galvanized	sf		\$14.21	0.00	\$0.00
11010-001	Stilling Wells With Electrical and Telemetry	ea		\$30,000.00	0.00	\$0.00
11010-001	Stilling Well	pr		\$10,750.00	0.00	\$0.00
11040-001	Slide gate position sensor	ea		\$23,000.00	0.00	\$0.00
11040-0290	Hydraulic STR, slide gate, SS, ab & grout 96" X 96"	ea		\$17,875.33	0.00	\$0.00
11040-0380	Slide Gate-Hydraulic STR, stainless Stl , 72" X 72", elec oper	ea		\$38,331.82	0.00	\$0.00
11050-0290	Sluice Gate, Hydraulic STR, HD self cont with actuator, 84" X 60"	ea		\$46,029.05	0.00	\$0.00
15090-0220	Piping, Water dist, conc. Pipe, gasket, 72" dia	ea		\$10.17	0.00	\$0.00
15096-0120	Piping Drainage and Sewage, RCP, class 3, no gaskets, 72" dia	lf		\$152.32	0.00	\$0.00
15230-500	Farm Pump Station Relocation	ea		\$300,000.00	0.00	\$0.00
15230-501	Pump Station	cfs		\$6,000.00	0.00	\$0.00
15230-502	Retrofit Pump Station	cfs		\$500.00	0.00	\$0.00
15230-503	Telemetry for Pump Station	ea		\$500,000.00	0.00	\$0.00
15230-504	Extension of OH Powerline to Pump Station Area	Mi		\$95,000.00	0.00	\$0.00
16195-001	Power Distribution	mi		\$80,000.00	0.00	\$0.00
16195-001	Electrical Control Structure	ea		\$698,000.00	0.00	\$0.00
17150-001	Telemetry	ea		\$10,750.00	0.00	\$0.00
CNL-100	Canal Cross Enlargement	Ac		\$3,500.00	0.00	\$0.00
CNL-110	Canal Enlargement (average)	mi		\$1,122,500.00	0.00	\$0.00
CNL-200	Construction of borrow canal	cy		\$4.25	0.00	\$0.00
CNL-300	Conveyance Canal	Ac		\$3,500.00	0.00	\$0.00
CNL-301	Excavate Canal Extension	cy		\$6.50	0.00	\$0.00
CNL-400	Infill internal drainage canal	cy		\$2.75	0.00	\$0.00
DEG-100	Degrade Farm Roads	cy		\$2.25	0.00	\$0.00
DEG-101	Degrade Interior Agricultural Ditches	mi		\$20,000.00	0.00	\$0.00
DEG-102	Degrading Includes Balance Material Ac	Ac		\$1,000.00	0.00	\$0.00
PLG-01	Plug inflow	cy		\$3.50	0.00	\$0.00
SPILL-01	Spillway	cfs		\$1,200.00	0.00	\$0.00
STR 1	Control Structure	ea	Varies		0.00	\$0.00
STR 2	10' X 10' Gated Water Control Structure with Telemetric Control	ea		\$425,000.00	0.00	\$0.00
STR 3	6' X 10' Gated Water Control Inflow Structure	ea		\$475,000.00	0.00	\$0.00
STR 4	8' X 10' Gated Water Control Intermediate Structure	ea		\$375,000.00	0.00	\$0.00
STR 5	8'X8' Gated water control structure	ea		\$340,000.00	0.00	\$0.00
STR 6	9' X 10' gated water control structure	ea		\$80,950.00	0.00	\$0.00
STR 7	Construction of twin Barreled Water Control Structure	ea		\$950,000.00	0.00	\$0.00
STR 8	Precast 72" X 72" Gate Structure	ea		\$40,204.22	0.00	\$0.00
STR-EQ 1	Water Control STR Electrical and Telemetry	ea		\$50,950.00	0.00	\$0.00
USACE0815	Separation Levee	Ac		\$3,500.00	0.00	\$0.00
USACE-100	Construction of perimeter Levee	cy		\$3.50	0.00	\$0.00
USACE-101	Degrade Levee at Inflow Weir	cy		\$1.25	0.00	\$0.00
Subtotal						\$5,156,171.79
Cont-1	Construction Cost Contingency	LS	30.0%		1.00	\$1,546,851.54
MISCTOOL1	Small Tools	LS	5%		1.00	\$257,808.59
MISCTOOL2	Equipment and Fuel Maintenance	LS	6%		1.00	\$309,370.31
TOTAL						\$7,270,202.22
LAND COST						
	Land Acquisitions	Ac		\$8,000.00	184	\$1,471,237.37
Cont-2	Land Cost Contingency	LS	50.0%		1.00	\$735,618.69
LANDACQ	Land Acquisitions (appraisals, negotiations, etc..)	LS	2.5%		1.00	\$55,171.40
						\$2,262,027.46
Design Phase						
01107-200	Construction Management	LS	7.5%		1.00	\$545,265.17
01107-300	Engineering Planning and Design	LS	10.0%		1.00	\$727,020.22
01107-700	Program Management	LS	2.5%		1.00	\$181,755.06
						\$1,454,040.44
Operation and Maintenance						
15230-016	Power Supply to Pump Station	ea		\$2,000,000.00		\$0.00
						\$0.00
GRAND TOTAL						\$10,986,270.13



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South Florida Water Management District
ADA Project No. C110-05-003
PROBABLE PLANNING-LEVEL OPINION OF CAPITAL COST
SAM SENTER CANAL

DATE: 10/03/05

Construction Cost						
Item No.	Description	UOM	Soft Cost (%)	Cost	Quantity	Total
01050-001	Temporary facilities	mo		\$2,500.00	0.00	\$0.00
01200-001	Rental-Crusher, Incl mob, de-mob and operation	ea		\$40,000.00	0.00	\$0.00
01200-001	Field Vehicles	ea		\$23,750.00	0.00	\$0.00
01250-001	Survey for Stage Monitor Set-up	ls		\$35,000.00	0.00	\$0.00
02060-0450	Site demo, pipe removal, sewer/water, no exc, 48"-6"0	cy		\$1.01	0.00	\$0.00
02070-1090	Equip, dml, 30" vertical turbine pump, motor, complete	ea		\$10,000.00	0.00	\$0.00
02170-0050	Saw cutting, concrete walls, rod reinforced, perim of depth	lf		\$9.46	0.00	\$0.00
02220-001	Remove Water structure	ea		\$50,000.00	0.00	\$0.00
02220-110	Building Demolition	sf		\$25.00	0.00	\$0.00
02230-100	Clearing and Grubbing	Ac		\$1,200.00	230.96	\$277,155.65
02230-100	Light Clearing	Ac		\$600.00	0.00	\$0.00
02230-102	Clear and Grub Levee Area	Ac		\$515.00	0.00	\$0.00
02230-200	Herbicide Treatment (for removal of exotic vegetation)	Ac		\$240.00	0.00	\$0.00
02230-300	Tree removal more 600 Tree/Ac	Ac		\$3,650.00	4.62	\$16,860.30
02230-310	Seeding and Mulching and Watering	Ac		\$1,200.00	0.00	\$0.00
02230-311	Seeding and Grassing	Ac		\$2,000.00	0.00	\$0.00
02240-0150	Dewatering, pumping 8 hr, unattended, 8" centrifugal pump	ea		\$238.49	0.00	\$0.00
02240-0160	Dewatering, pumping 8 hr, unattended, add per additional 8"pump	day		\$110.55	0.00	\$0.00
02240-100	Dewatering	cy		\$0.25	0.00	\$0.00
02300-100	Earthwork Construction to supply water to inflow canal	cy		\$4.00	0.00	\$0.00
02305-100	Mobilization/Demo of offices/equipment/personnel	LS		\$250,000.00	0.00	\$0.00
02315-100	Excavation (heavy) Includes Entrance Canal	cy		\$3.50	227,830.74	\$797,407.59
02315-101	Excavation (light) Includes Entrance Canal	cy		\$2.55	455,661.48	\$1,161,936.78
02315-320	Compact Spoil	cy		\$1.00	1,264,780.00	\$1,264,780.00
02315-416	Drilling and Blasting Canal	cy		\$1.00	455,661.48	\$455,661.48
02315-424	Excavate Existing Spoil	cy		\$1.00	227,830.74	\$227,830.74
02315-432	Peat Excavation	cy		\$0.60	455,661.48	\$273,396.89
02315-462	Cap rock Excavation	cy		\$2.00	455,661.48	\$911,322.96
02315-510	Place Spoil	cy		\$1.00	0.00	\$0.00
02320-0030	Backfill, FE loader, bulk up to 150' haul, no compaction	cy		\$1.40	0.00	\$0.00
02320-0030	Backfill, dozer backfill, bulk, up to 150' haul, no compaction	cy		\$1.00	0.00	\$0.00
02340-0010	Bedding, crushed stone 3/4" to 1/2"	cy		\$16.50	0.00	\$0.00
02340-0010	9" Bedding	cy		\$26.05	0.00	\$0.00
02360-0020	Compaction, sheepsfoot of wobbly wheel roller, 24" lift, select fill	cy		\$0.14	0.00	\$0.00
02360-0030	Compaction, Vibratory plate, 8" lifts, Subgrade	cy		\$1.15	0.00	\$0.00
02360-0031	Compaction, vibratory plate, 24" lifts, subgrade	cy		\$0.31	210,796.67	\$65,346.97
02360-0032	Compaction, vibratory plate, 24" lifts, Backfill	cy		\$0.31	210,796.67	\$65,346.97
02360-0040	Compaction, Vibratory plate, 8" lifts, Bedding	cy		\$1.15	0.00	\$0.00
02370-0050	Drilling and Blasting, bulk drilling and blasting, can vary greatly, avg	cy		\$2.00	0.00	\$0.00
02390-0010	Backhoe Excavation and Load Blasted Material	cy		\$1.56	455,661.48	\$710,831.91
02396-0050	Excavating and Loading Road, FE Loader , whl mtd, 1.5	cy		\$2.25	0.00	\$0.00
02396-0050	Excavate and Spread loose, 300' haul, FE LDR, whl mtd, 1.5 cy cap	cy		\$2.29	0.00	\$0.00
02430-0010	Fill, spread dumped matl, by dozer, no compaction	cy		\$1.03	147,557.67	\$151,984.40
02430-0030	Fill, spread f, from stockpile w/2-1/2 cy FE LDR, 130 HP, 300'haul	cy		\$1.54	0.00	\$0.00
02450-0010	Excavate Trench, cont ftg, no sht or dewater, 4'-6" D, 1.5 cy hyd bac	cy		\$1.66	0.00	\$0.00
02460-0010	Hauling, LCY, no loading, 16cy dump truck, 4 mile RT, 1.6 lds/hr	cy		\$2.84	63,239.00	\$179,598.76
02460-0020	Hauling, LCY, no loading, 12 cy Dump Truck, IDM, RT, .60 LDS/hr	cy		\$11.42	0.00	\$0.00
02460-0900	Loading trucks FE LDR, 3cy	cy		\$1.19	63,239.00	\$75,254.41
02470-0020	Soil Stabilization, geotex fabric, woven, HD, 600lb tensile set	cy		\$1.82	210,796.67	\$383,649.93
02480-0010	Rip-rap, random, machine placed for slope protection	cy		\$40.39	0.00	\$0.00
02500-0020	Bulkheads, reinforced concrete, 12' high	lf		\$289.29	0.00	\$0.00
02560-0990	Drainage, 8' X 8' precast Box culvert, 8' Section	lf		\$278.71	0.00	\$0.00
02630-100	Major Culvert Replacement	ea		\$100,000.00	0.00	\$0.00
02630-101	Minor Culvert Replacement	ea		\$35,000.00	0.00	\$0.00
02630-200	Internal Gated STR-1670 cfs	ea		\$82,000.00	0.00	\$0.00
02630-201	Internal Gated STR-1200 cfs	ea		\$65,000.00	0.00	\$0.00
02720-200	Temporary Construction (Shoo-fly: temporary by-pass)	ft		\$100.00	0.00	\$0.00
02720-200B	New Agr Bridges	EA		\$500,000.00	3.00	\$1,500,000.00
02740-310	Approach Reconstruction	ft		\$200.00	30.00	\$6,000.00
02840-0310	Seeding, mechanical seeding, 215 lb/acre	Ac		\$671.16	38.11	\$25,577.17
02840-0311	Hydro Seeding	Ac		\$2,130.00	0.00	\$0.00
02840-910	Traffic Control	LS		\$40,000.00	0.00	\$0.00
02850-100	Bridge Extension	sf		\$500.00	0.00	\$0.00

Item No.	Description	UOM	Soft Cost (%)	Cost	Quantity	Total
02850-102	Culvert Bridge	ls		\$750,000.00	0.00	\$0.00
02850-210A	Bridge Construction	sf		\$120.00	0.00	\$0.00
03300-001	12' X 22' precast concrete bldg + delivery	ea		\$25,902.13	0.00	\$0.00
05090-0010	Floor grating, alum, up to 300 sf, 1.5"1/8 bar, galvanized	sf		\$14.21	0.00	\$0.00
11010-001	Stilling Wells With Electrical and Telemetry	ea		\$30,000.00	0.00	\$0.00
11010-001	Stilling Well	pr		\$10,750.00	0.00	\$0.00
11040-001	Slide gate position sensor	ea		\$23,000.00	0.00	\$0.00
11040-0290	Hydraulic STR, slide gate, SS, ab & grout 96" X 96"	ea		\$17,875.33	0.00	\$0.00
11040-0380	Slide Gate-Hydraulic STR, stainless Stl , 72" X 72", elec oper	ea		\$38,331.82	0.00	\$0.00
11050-0290	Sluice Gate, Hydraulic STR, HD self cont with actuator, 84" X 60"	ea		\$46,029.05	0.00	\$0.00
15090-0220	Piping, Water dist, conc. Pipe, gasket, 72" dia	ea		\$10.17	0.00	\$0.00
15096-0120	Piping Drainage and Sewage, RCP, class 3, no gaskets, 72" dia	lf		\$152.32	0.00	\$0.00
15230-500	Farm Pump Station Relocation	ea		\$300,000.00	3.00	\$900,000.00
15230-501	Pump Station	cfs		\$6,000.00	0.00	\$0.00
15230-502	Retrofit Pump Station	cfs		\$500.00	0.00	\$0.00
15230-503	Telemetry for Pump Station	ea		\$500,000.00	0.00	\$0.00
15230-504	Extension of OH Powerline to Pump Station Area	Mi		\$95,000.00	0.45	\$42,750.00
16195-001	Power Distribution	mi		\$80,000.00	0.00	\$0.00
16195-001	Electrical Control Structure	ea		\$698,000.00	0.00	\$0.00
17150-001	Telemetry	ea		\$10,750.00	0.00	\$0.00
CNL-100	Canal Cross Enlargement	Ac		\$3,500.00	0.00	\$0.00
CNL-110	Canal Enlargement (average)	mi		\$1,122,500.00	0.00	\$0.00
CNL-200	Construction of borrow canal	cy		\$4.25	0.00	\$0.00
CNL-300	Conveyance Canal	Ac		\$3,500.00	0.00	\$0.00
CNL-301	Excavate Canal Extension	cy		\$6.50	0.00	\$0.00
CNL-400	Infill internal drainage canal	cy		\$2.75	0.00	\$0.00
DEG-100	Degrade Farm Roads	cy		\$2.25	0.00	\$0.00
DEG-101	Degrade Interior Agricultural Ditches	mi		\$20,000.00	0.00	\$0.00
DEG-102	Degrading Includes Balance Material Ac	Ac		\$1,000.00	0.00	\$0.00
PLG-01	Plug inflow	cy		\$3.50	0.00	\$0.00
SPILL-01	Spillway	cfs		\$1,200.00	0.00	\$0.00
STR 1	Control Structure	ea	Varies		0.00	\$0.00
STR 2	10' X 10' Gated Water Control Structure with Telemetric Control	ea		\$425,000.00	0.00	\$0.00
STR 3	6' X 10' Gated Water Control Inflow Structure	ea		\$475,000.00	0.00	\$0.00
STR 4	8' X 10' Gated Water Control Intermediate Structure	ea		\$375,000.00	0.00	\$0.00
STR 5	8'X8' Gated water control structure	ea		\$340,000.00	0.00	\$0.00
STR 6	9' X 10' gated water control structure	ea		\$80,950.00	0.00	\$0.00
STR 7	Construction of twin Barreled Water Control Structure	ea		\$950,000.00	0.00	\$0.00
STR 8	Precast 72" X 72" Gate Structure	ea		\$40,204.22	0.00	\$0.00
STR-EQ 1	Water Control STR Electrical and Telemetry	ea		\$50,950.00	0.00	\$0.00
USACE0815	Separation Levee	Ac		\$3,500.00	0.00	\$0.00
USACE-100	Construction of perimeter Levee	cy		\$3.50	0.00	\$0.00
USACE-101	Degrade Levee at Inflow Weir	cy		\$1.25	0.00	\$0.00
					Subtotal	\$9,492,692.91

Cont-1	Construction Cost Contingency	LS	30.0%		1.00	\$2,847,807.87
MISCTOOL1	Small Tools	LS	5%		1.00	\$474,634.65
MISCTOOL2	Equipment and Fuel Maintenance	LS	6%		1.00	\$569,561.57

TOTAL	\$13,384,697.00
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Land Cost						
	Land Acquisitions	Ac		\$8,000.00	320	\$2,557,046.80
Cont-2	Land Cost Contingency	LS	50.0%		1.00	\$1,278,523.40
LANDACQ	Land Acquisitions (appraisals, negotiations, etc..)	LS	2.5%		1.00	\$95,889.26
						\$3,931,459.46

Design Phase						
01107-200	Construction Management	LS	7.5%		1.00	\$1,003,852.28
01107-300	Engineering Planning and Design	LS	10.0%		1.00	\$1,338,469.70
01107-700	Program Management	LS	2.5%		1.00	\$334,617.43
						\$2,676,939.40

Operation and Maintenance						
15230-016	Power Supply to Pump Station	ea		\$2,000,000.00		\$0.00
						\$0.00

GRAND TOTAL	\$19,993,095.86
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A.D.A. Engineering, Inc.
Consulting Engineers & Planners



EAA REGIONAL FEASIBILITY STUDY
South Florida Water Management District
ADA Project No. C110-05-003
PROBABLE PLANNING-LEVEL OPINION OF CAPITAL COST
OCEAN CANAL

11401 SW 40th Street, Suite 470
Miami, FL 33165
Phone: (305)-551-4608
Fax: (305)-551-8977

www.adaengineering.com

DATE: 10/03/05

Construction Cost						
Item No.	Description	UOM	Soft Cost (%)	Cost	Quantity	Total
01050-001	Temporary facilities	mo		\$2,500.00	0.00	\$0.00
01200-001	Rental-Crusher, Incl mob, de-mob and operation	ea		\$40,000.00	0.00	\$0.00
01200-001	Field Vehicles	ea		\$23,750.00	0.00	\$0.00
01250-001	Survey for Stage Monitor Set-up	ls		\$35,000.00	0.00	\$0.00
02060-0450	Site demo, pipe removal, sewer/water, no exc, 48"-6"0	cy		\$1.01	0.00	\$0.00
02070-1090	Equip, dml, 30" vertical turbine pump, motor, complete	ea		\$10,000.00	0.00	\$0.00
02170-0050	Saw cutting, concrete walls, rod reinforced, perim of depth	lf		\$9.46	0.00	\$0.00
02220-001	Remove Water structure	ea		\$50,000.00	0.00	\$0.00
02220-110	Building Demolition	sf		\$25.00	0.00	\$0.00
02230-100	Clearing and Grubbing	Ac		\$1,200.00	163.05	\$195,663.36
02230-100	Light Clearing	Ac		\$600.00	0.00	\$0.00
02230-102	Clear and Grub Levee Area	Ac		\$515.00	0.00	\$0.00
02230-200	Herbicide Treatment (for removal of exotic vegetation)	Ac		\$240.00	0.00	\$0.00
02230-300	Tree removal more 600 Tree/Ac	Ac		\$3,650.00	3.26	\$11,902.85
02230-310	Seeding and Mulching and Watering	Ac		\$1,200.00	0.00	\$0.00
02230-311	Seeding and Grassing	Ac		\$2,000.00	0.00	\$0.00
02240-0150	Dewatering, pumping 8 hr, unattended, 8" centrifugal pump	ea		\$238.49	0.00	\$0.00
02240-0160	Dewatering, pumping 8 hr, unattended, add per additional 8"pump	day		\$110.55	0.00	\$0.00
02240-100	Dewatering	cy		\$0.25	0.00	\$0.00
02300-100	Earthwork Construction to supply water to inflow canal	cy		\$4.00	0.00	\$0.00
02305-100	Mobilization/Demo of offices/equipment/personnel	LS		\$250,000.00	0.00	\$0.00
02315-100	Excavation (heavy) Includes Entrance Canal	cy		\$3.50	129,532.74	\$453,364.57
02315-101	Excavation (light) Includes Entrance Canal	cy		\$2.55	259,065.47	\$660,616.95
02315-320	Compact Spoil	cy		\$1.00	890,937.67	\$890,937.67
02315-416	Drilling and Blasting Canal	cy		\$1.00	259,065.47	\$259,065.47
02315-424	Excavate Existing Spoil	cy		\$1.00	129,532.74	\$129,532.74
02315-432	Peat Excavation	cy		\$0.60	259,065.47	\$155,439.28
02315-462	Cap rock Excavation	cy		\$2.00	259,065.47	\$518,130.94
02315-510	Place Spoil	cy		\$1.00	0.00	\$0.00
02320-0030	Backfill, FE loader, bulk up to 150' haul, no compaction	cy		\$1.40	0.00	\$0.00
02320-0030	Backfill, dozer backfill, bulk, up to 150' haul, no compaction	cy		\$1.00	0.00	\$0.00
02340-0010	Bedding, crushed stone 3/4" to 1/2"	cy		\$16.50	0.00	\$0.00
02340-0010	9" Bedding	cy		\$26.05	0.00	\$0.00
02360-0020	Compaction, sheepsfoot of wobbly wheel roller, 24" lift, select fill	cy		\$0.14	0.00	\$0.00
02360-0030	Compaction, Vibratory plate, 8" lifts, Subgrade	cy		\$1.15	0.00	\$0.00
02360-0031	Compaction, vibratory plate, 24" lifts, subgrade	cy		\$0.31	148,489.61	\$46,031.78
02360-0032	Compaction, vibratory plate, 24" lifts, Backfill	cy		\$0.31	148,489.61	\$46,031.78
02360-0040	Compaction, Vibratory plate, 8" lifts, Bedding	cy		\$1.15	0.00	\$0.00
02370-0050	Drilling and Blasting, bulk drilling and blasting, can vary greatly, avg	cy		\$2.00	0.00	\$0.00
02390-0010	Backhoe Excavation and Load Blasted Material	cy		\$1.56	259,065.47	\$404,142.13
02396-0050	Excavating and Loading Road, FE Loader , whl mtd, 1.5	cy		\$2.25	0.00	\$0.00
02396-0050	Excavate and Spread loose, 300' haul, FE LDR, whl mtd, 1.5 cy cap	cy		\$2.29	0.00	\$0.00
02430-0010	Fill, spread dumped matl, by dozer, no compaction	cy		\$1.03	103,942.73	\$107,061.01
02430-0030	Fill, spread f, from stockpile w/2-1/2 cy FE LDR, 130 HP, 300'haul	cy		\$1.54	0.00	\$0.00
02450-0010	Excavate Trench, cont ftg, no sht or dewater, 4'-6" D, 1.5 cy hyd bac	cy		\$1.66	0.00	\$0.00
02460-0010	Hauling, LCY, no loading, 16cy dump truck, 4 mile RT, 1.6 lds/hr	cy		\$2.84	44,546.88	\$126,513.15
02460-0020	Hauling, LCY, no loading, 12 cy Dump Truck, IDM, RT, .60 LDS/hr	cy		\$11.42	0.00	\$0.00
02460-0900	Loading trucks FE LDR, 3cy	cy		\$1.19	44,546.88	\$53,010.79
02470-0020	Soil Stabilization, geotex fabric, woven, HD, 600lb tensile set	cy		\$1.82	148,489.61	\$270,251.09
02480-0010	Rip-rap, random, machine placed for slope protection	cy		\$40.39	0.00	\$0.00
02500-0020	Bulkheads, reinforced concrete, 12' high	lf		\$289.29	0.00	\$0.00
02560-0990	Drainage, 8' X 8' precast Box culvert, 8' Section	lf		\$278.71	0.00	\$0.00
02630-100	Major Culvert Replacement	ea		\$100,000.00	0.00	\$0.00
02630-101	Minor Culvert Replacement	ea		\$35,000.00	0.00	\$0.00
02630-200	Internal Gated STR-1670 cfs	ea		\$82,000.00	0.00	\$0.00
02630-201	Internal Gated STR-1200 cfs	ea		\$65,000.00	0.00	\$0.00
02720-200	Temporary Construction (Shoo-fly: temporary by-pass)	ft		\$100.00	0.00	\$0.00
02720-200B	New Agr Bridges	EA		\$500,000.00	3.00	\$1,500,000.00
02740-310	Approach Reconstruction	ft		\$200.00	20.00	\$4,000.00
02840-0310	Seeding, mechanical seeding, 215 lb/acre	Ac		\$671.16	26.28	\$17,639.12
02840-0311	Hydro Seeding	Ac		\$2,130.00	0.00	\$0.00
02840-910	Traffic Control	LS		\$40,000.00	0.00	\$0.00
02850-100	Bridge Extension	sf		\$500.00	0.00	\$0.00

Item No.	Description	UOM	Soft Cost (%)	Cost	Quantity	Total
02850-102	Culvert Bridge	ls		\$750,000.00	0.00	\$0.00
02850-210A	Bridge Construction	sf		\$120.00	0.00	\$0.00
03300-001	12' X 22' precast concrete bldg + delivery	ea		\$25,902.13	0.00	\$0.00
05090-0010	Floor grating, alum, up to 300 sf, 1.5"1/8 bar, galvanized	sf		\$14.21	0.00	\$0.00
11010-001	Stilling Wells With Electrical and Telemetry	ea		\$30,000.00	0.00	\$0.00
11010-001	Stilling Well	pr		\$10,750.00	0.00	\$0.00
11040-001	Slide gate position sensor	ea		\$23,000.00	0.00	\$0.00
11040-0290	Hydraulic STR, slide gate, SS, ab & grout 96" X 96"	ea		\$17,875.33	0.00	\$0.00
11040-0380	Slide Gate-Hydraulic STR, stainless Stl , 72" X 72", elec oper	ea		\$38,331.82	0.00	\$0.00
11050-0290	Sluice Gate, Hydraulic STR, HD self cont with actuator, 84" X 60"	ea		\$46,029.05	0.00	\$0.00
15090-0220	Piping, Water dist, conc. Pipe, gasket, 72" dia	ea		\$10.17	0.00	\$0.00
15096-0120	Piping Drainage and Sewage, RCP, class 3, no gaskets, 72" dia	lf		\$152.32	0.00	\$0.00
15230-500	Farm Pump Station Relocation	ea		\$300,000.00	4.00	\$1,200,000.00
15230-501	Pump Station	cfs		\$6,000.00	0.00	\$0.00
15230-502	Retrofit Pump Station	cfs		\$500.00	0.00	\$0.00
15230-503	Telemetry for Pump Station	ea		\$500,000.00	0.00	\$0.00
15230-504	Extension of OH Powerline to Pump Station Area	Mi		\$95,000.00	0.76	\$72,200.00
16195-001	Power Distribution	mi		\$80,000.00	0.00	\$0.00
16195-001	Electrical Control Structure	ea		\$698,000.00	0.00	\$0.00
17150-001	Telemetry	ea		\$10,750.00	0.00	\$0.00
CNL-100	Canal Cross Enlargement	Ac		\$3,500.00	0.00	\$0.00
CNL-110	Canal Enlargement (average)	mi		\$1,122,500.00	0.00	\$0.00
CNL-200	Construction of borrow canal	cy		\$4.25	0.00	\$0.00
CNL-300	Conveyance Canal	Ac		\$3,500.00	0.00	\$0.00
CNL-301	Excavate Canal Extension	cy		\$6.50	0.00	\$0.00
CNL-400	Infill internal drainage canal	cy		\$2.75	0.00	\$0.00
DEG-100	Degrade Farm Roads	cy		\$2.25	0.00	\$0.00
DEG-101	Degrade Interior Agricultural Ditches	mi		\$20,000.00	0.00	\$0.00
DEG-102	Degrading Includes Balance Material Ac	Ac		\$1,000.00	0.00	\$0.00
PLG-01	Plug inflow	cy		\$3.50	0.00	\$0.00
SPILL-01	Spillway	cfs		\$1,200.00	0.00	\$0.00
STR 1	Control Structure	ea	Varies		0.00	\$0.00
STR 2	10' X 10' Gated Water Control Structure with Telemetric Control	ea		\$425,000.00	0.00	\$0.00
STR 3	6' X 10' Gated Water Control Inflow Structure	ea		\$475,000.00	0.00	\$0.00
STR 4	8' X 10' Gated Water Control Intermediate Structure	ea		\$375,000.00	0.00	\$0.00
STR 5	8'X8' Gated water control structure	ea		\$340,000.00	0.00	\$0.00
STR 6	9' X 10' gated water control structure	ea		\$80,950.00	0.00	\$0.00
STR 7	Construction of twin Barreled Water Control Structure	ea		\$950,000.00	0.00	\$0.00
STR 8	Precast 72" X 72" Gate Structure	ea		\$40,204.22	0.00	\$0.00
STR-EQ 1	Water Control STR Electrical and Telemetry	ea		\$50,950.00	0.00	\$0.00
USACE0815	Separation Levee	Ac		\$3,500.00	0.00	\$0.00
USACE-100	Construction of perimeter Levee	cy		\$3.50	0.00	\$0.00
USACE-101	Degrade Levee at Inflow Weir	cy		\$1.25	0.00	\$0.00
					Subtotal	\$7,121,534.69

Cont-1	Construction Cost Contingency	LS	30.0%		1.00	\$2,136,460.41
MISCTOOL1	Small Tools	LS	5%		1.00	\$356,076.73
MISCTOOL2	Equipment and Fuel Maintenance	LS	6%		1.00	\$427,292.08

TOTAL	\$10,041,363.91
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Land Cost						
	Land Acquisitions	Ac		\$7,000.00	111	\$778,696.40
Cont-2	Land Cost Contingency	LS	50.0%		1.00	\$389,348.20
LANDACQ	Land Acquisitions (appraisals, negotiations, etc..)	LS	2.5%		1.00	\$29,201.11
						\$1,197,245.71

Design Phase						
01107-200	Construction Management	LS	7.5%		1.00	\$753,102.29
01107-300	Engineering Planning and Design	LS	10.0%		1.00	\$1,004,136.39
01107-700	Program Management	LS	2.5%		1.00	\$251,034.10
						\$2,008,272.78

Operation and Maintenance						
15230-016	Power Supply to Pump Station	ea		\$2,000,000.00		\$0.00
						\$0.00

GRAND TOTAL	\$13,246,882.40
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A.D.A. Engineering, Inc.
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EAA REGIONAL FEASIBILITY STUDY
South Florida Water Management District

ADA Project No. C110-05-003

PROBABLE PLANNING-LEVEL OPINION OF CAPITAL COST

HILLSBORO CANAL

DATE: 10/03/05

Construction Cost						
Item No.	Description	UOM	Soft Cost (%)	Cost	Quantity	Total
01050-001	Temporary facilities	mo		\$2,500.00	0.00	\$0.00
01200-001	Rental-Crusher, Incl mob, de-mob and operation	ea		\$40,000.00	0.00	\$0.00
01200-001	Field Vehicles	ea		\$23,750.00	0.00	\$0.00
01250-001	Survey for Stage Monitor Set-up	ls		\$35,000.00	0.00	\$0.00
02060-0450	Site demo, pipe removal, sewer/water, no exc, 48"-6"0	cy		\$1.01	0.00	\$0.00
02070-1090	Equip, dml, 30" vertical turbine pump, motor, complete	ea		\$10,000.00	0.00	\$0.00
02170-0050	Saw cutting, concrete walls, rod reinforced, perim of depth	lf		\$9.46	0.00	\$0.00
02220-001	Remove Water structure	ea		\$50,000.00	0.00	\$0.00
02220-110	Building Demolition	sf		\$25.00	0.00	\$0.00
02230-100	Clearing and Grubbing	Ac		\$1,200.00	59.23	\$71,074.38
02230-100	Light Clearing	Ac		\$600.00	0.00	\$0.00
02230-102	Clear and Grub Levee Area	Ac		\$515.00	0.00	\$0.00
02230-200	Herbicide Treatment (for removal of exotic vegetation)	Ac		\$240.00	0.00	\$0.00
02230-300	Tree removal more 600 Tree/Ac	Ac		\$3,650.00	1.18	\$4,323.69
02230-310	Seeding and Mulching and Watering	Ac		\$1,200.00	0.00	\$0.00
02230-311	Seeding and Grassing	Ac		\$2,000.00	0.00	\$0.00
02240-0150	Dewatering, pumping 8 hr, unattended, 8" centrifugal pump	ea		\$238.49	0.00	\$0.00
02240-0160	Dewatering, pumping 8 hr, unattended, add per additional 8"pump	day		\$110.55	0.00	\$0.00
02240-100	Dewatering	cy		\$0.25	0.00	\$0.00
02300-100	Earthwork Construction to supply water to inflow canal	cy		\$4.00	0.00	\$0.00
02305-100	Mobilization/Demo of offices/equipment/personnel	LS		\$250,000.00	0.00	\$0.00
02315-100	Excavation (heavy) Includes Entrance Canal	cy		\$3.50	50,560.80	\$176,962.79
02315-101	Excavation (light) Includes Entrance Canal	cy		\$2.55	101,121.59	\$257,860.06
02315-320	Compact Spoil	cy		\$1.00	363,000.00	\$363,000.00
02315-416	Drilling and Blasting Canal	cy		\$1.00	101,121.59	\$101,121.59
02315-424	Excavate Existing Spoil	cy		\$1.00	50,560.80	\$50,560.80
02315-432	Peat Excavation	cy		\$0.60	101,121.59	\$60,672.96
02315-462	Cap rock Excavation	cy		\$2.00	101,121.59	\$202,243.19
02315-510	Place Spoil	cy		\$1.00	0.00	\$0.00
02320-0030	Backfill, FE loader, bulk up to 150' haul, no compaction	cy		\$1.40	0.00	\$0.00
02320-0030	Backfill, dozer backfill, bulk, up to 150' haul, no compaction	cy		\$1.00	0.00	\$0.00
02340-0010	Bedding, crushed stone 3/4" to 1/2"	cy		\$16.50	0.00	\$0.00
02340-0010	9" Bedding	cy		\$26.05	0.00	\$0.00
02360-0020	Compaction, sheepsfoot of wobbly wheel roller, 24" lift, select fill	cy		\$0.14	0.00	\$0.00
02360-0030	Compaction, Vibratory plate, 8" lifts, Subgrade	cy		\$1.15	0.00	\$0.00
02360-0031	Compaction, vibratory plate, 24" lifts, subgrade	cy		\$0.31	60,500.00	\$18,755.00
02360-0032	Compaction, vibratory plate, 24" lifts, Backfill	cy		\$0.31	60,500.00	\$18,755.00
02360-0040	Compaction, Vibratory plate, 8" lifts, Bedding	cy		\$1.15	0.00	\$0.00
02370-0050	Drilling and Blasting, bulk drilling and blasting, can vary greatly, avg	cy		\$2.00	0.00	\$0.00
02390-0010	Backhoe Excavation and Load Blasted Material	cy		\$1.56	101,121.59	\$157,749.69
02396-0050	Excavating and Loading Road, FE Loader , whl mtd, 1.5	cy		\$2.25	0.00	\$0.00
02396-0050	Excavate and Spread loose, 300' haul, FE LDR, whl mtd, 1.5 cy cap	cy		\$2.29	0.00	\$0.00
02430-0010	Fill, spread dumped matl, by dozer, no compaction	cy		\$1.03	42,350.00	\$43,620.50
02430-0030	Fill, spread f, from stockpile w/2-1/2 cy FE LDR, 130 HP, 300'haul	cy		\$1.54	0.00	\$0.00
02450-0010	Excavate Trench, cont ftg, no sht or dewater, 4'-6" D, 1.5 cy hyd bac	cy		\$1.66	0.00	\$0.00
02460-0010	Hauling, LCY, no loading, 16cy dump truck, 4 mile RT, 1.6 lds/hr	cy		\$2.84	18,150.00	\$51,546.00
02460-0020	Hauling, LCY, no loading, 12 cy Dump Truck, IDM, RT, .60 LDS/hr	cy		\$11.42	0.00	\$0.00
02460-0900	Loading trucks FE LDR, 3cy	cy		\$1.19	18,150.00	\$21,598.50
02470-0020	Soil Stabilization, geotex fabric, woven, HD, 600lb tensile set	cy		\$1.82	60,500.00	\$110,110.00
02480-0010	Rip-rap, random, machine placed for slope protection	cy		\$40.39	0.00	\$0.00
02500-0020	Bulkheads, reinforced concrete, 12' high	lf		\$289.29	0.00	\$0.00
02560-0990	Drainage, 8' X 8' precast Box culvert, 8' Section	lf		\$278.71	0.00	\$0.00
02630-100	Major Culvert Replacement	ea		\$100,000.00	0.00	\$0.00
02630-101	Minor Culvert Replacement	ea		\$35,000.00	0.00	\$0.00
02630-200	Internal Gated STR-1670 cfs	ea		\$82,000.00	0.00	\$0.00
02630-201	Internal Gated STR-1200 cfs	ea		\$65,000.00	0.00	\$0.00
02720-200	Temporary Construction (Shoo-fly: temporary by-pass)	ft		\$100.00	0.00	\$0.00
02720-200B	New Agr Bridges	EA		\$500,000.00	0.00	\$0.00
02740-310	Approach Reconstruction	ft		\$200.00	0.00	\$0.00
02840-0310	Seeding, mechanical seeding, 215 lb/acre	Ac		\$671.16	10.12	\$6,794.80
02840-0311	Hydro Seeding	Ac		\$2,130.00	0.00	\$0.00
02840-910	Traffic Control	LS		\$40,000.00	0.00	\$0.00
02850-100	Bridge Extension	sf		\$500.00	0.00	\$0.00

Item No.	Description	UOM	Soft Cost (%)	Cost	Quantity	Total
02850-102	Culvert Bridge	ls		\$750,000.00	0.00	\$0.00
02850-210A	Bridge Construction	sf		\$120.00	0.00	\$0.00
03300-001	12' X 22' precast concrete bldg + delivery	ea		\$25,902.13	0.00	\$0.00
05090-0010	Floor grating, alum, up to 300 sf, 1.5"1/8 bar, galvanized	sf		\$14.21	0.00	\$0.00
11010-001	Stilling Wells With Electrical and Telemetry	ea		\$30,000.00	0.00	\$0.00
11010-001	Stilling Well	pr		\$10,750.00	0.00	\$0.00
11040-001	Slide gate position sensor	ea		\$23,000.00	0.00	\$0.00
11040-0290	Hydraulic STR, slide gate, SS, ab & grout 96" X 96"	ea		\$17,875.33	0.00	\$0.00
11040-0380	Slide Gate-Hydraulic STR, stainless Stl , 72" X 72", elec oper	ea		\$38,331.82	0.00	\$0.00
11050-0290	Sluice Gate, Hydraulic STR, HD self cont with actuator, 84" X 60"	ea		\$46,029.05	0.00	\$0.00
15090-0220	Piping, Water dist, conc. Pipe, gasket, 72" dia	ea		\$10.17	0.00	\$0.00
15096-0120	Piping Drainage and Sewage, RCP, class 3, no gaskets, 72" dia	lf		\$152.32	0.00	\$0.00
15230-500	Farm Pump Station Relocation	ea		\$300,000.00	0.00	\$0.00
15230-501	Pump Station	cfs		\$6,000.00	0.00	\$0.00
15230-502	Retrofit Pump Station	cfs		\$500.00	0.00	\$0.00
15230-503	Telemetry for Pump Station	ea		\$500,000.00	0.00	\$0.00
15230-504	Extension of OH Powerline to Pump Station Area	Mi		\$95,000.00	0.00	\$0.00
16195-001	Power Distribution	mi		\$80,000.00	0.00	\$0.00
16195-001	Electrical Control Structure	ea		\$698,000.00	0.00	\$0.00
17150-001	Telemetry	ea		\$10,750.00	0.00	\$0.00
CNL-100	Canal Cross Enlargement	Ac		\$3,500.00	0.00	\$0.00
CNL-110	Canal Enlargement (average)	mi		\$1,122,500.00	0.00	\$0.00
CNL-200	Construction of borrow canal	cy		\$4.25	0.00	\$0.00
CNL-300	Conveyance Canal	Ac		\$3,500.00	0.00	\$0.00
CNL-301	Excavate Canal Extension	cy		\$6.50	0.00	\$0.00
CNL-400	Infill internal drainage canal	cy		\$2.75	0.00	\$0.00
DEG-100	Degrade Farm Roads	cy		\$2.25	0.00	\$0.00
DEG-101	Degrade Interior Agricultural Ditches	mi		\$20,000.00	0.00	\$0.00
DEG-102	Degrading Includes Balance Material Ac	Ac		\$1,000.00	0.00	\$0.00
PLG-01	Plug inflow	cy		\$3.50	0.00	\$0.00
SPILL-01	Spillway	cfs		\$1,200.00	0.00	\$0.00
STR 1	Control Structure	ea	Varies		0.00	\$0.00
STR 2	10' X 10' Gated Water Control Structure with Telemetric Control	ea		\$425,000.00	0.00	\$0.00
STR 3	6' X 10' Gated Water Control Inflow Structure	ea		\$475,000.00	0.00	\$0.00
STR 4	8' X 10' Gated Water Control Intermediate Structure	ea		\$375,000.00	0.00	\$0.00
STR 5	8'X8' Gated water control structure	ea		\$340,000.00	0.00	\$0.00
STR 6	9' X 10' gated water control structure	ea		\$80,950.00	0.00	\$0.00
STR 7	Construction of twin Barreled Water Control Structure	ea		\$950,000.00	0.00	\$0.00
STR 8	Precast 72" X 72" Gate Structure	ea		\$40,204.22	0.00	\$0.00
STR-EQ 1	Water Control STR Electrical and Telemetry	ea		\$50,950.00	0.00	\$0.00
USACE0815	Separation Levee	Ac		\$3,500.00	0.00	\$0.00
USACE-100	Construction of perimeter Levee	cy		\$3.50	0.00	\$0.00
USACE-101	Degrade Levee at Inflow Weir	cy		\$1.25	0.00	\$0.00
Subtotal						\$1,716,748.95

Cont-1	Construction Cost Contingency	LS	30.0%		1.00	\$515,024.69
MISCTOOL1	Small Tools	LS	5%		1.00	\$85,837.45
MISCTOOL2	Equipment and Fuel Maintenance	LS	6%		1.00	\$103,004.94

TOTAL \$2,420,616.02

Land Cost						
	Land Acquisitions	Ac		\$7,000.00	28	\$195,615.06
Cont-2	Land Cost Contingency	LS	50.0%		1.00	\$97,807.53
LANDACQ	Land Acquisitions (appraisals, negotiations, etc..)	LS	10.0%		1.00	\$29,342.26
						\$322,764.85

Design Phase						
01107-200	Construction Management	LS	7.5%		1.00	\$181,546.20
01107-300	Engineering Planning and Design	LS	10.0%		1.00	\$242,061.60
01107-700	Program Management	LS	2.5%		1.00	\$60,515.40
						\$484,123.20

Operation and Maintenance						
15230-016	Power Supply to Pump Station	ea		\$2,000,000.00		\$0.00
						\$0.00

GRAND TOTAL \$3,227,504.08



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EAA REGIONAL FEASIBILITY STUDY
South Florida Water Management District
ADA Project No. C110-05-003
PROBABLE PLANNING-LEVEL OPINION OF CAPITAL COST
CROSS CANAL

www.adaengineering.com

DATE: 10/03/05

Construction Cost						
Item No.	Description	UOM	Soft Cost (%)	Cost	Quantity	Total
01050-001	Temporary facilities	mo		\$2,500.00	0.00	\$0.00
01200-001	Rental-Crusher, Incl mob, de-mob and operation	ea		\$40,000.00	0.00	\$0.00
01200-001	Field Vehicles	ea		\$23,750.00	0.00	\$0.00
01250-001	Survey for Stage Monitor Set-up	ls		\$35,000.00	1.00	\$35,000.00
02060-0450	Site demo, pipe removal, sewer/water, no exc, 48"-6"0	cy		\$1.01	0.00	\$0.00
02070-1090	Equip, dml, 30" vertical turbine pump, motor, complete	ea		\$10,000.00	0.00	\$0.00
02170-0050	Saw cutting, concrete walls, rod reinforced, perim of depth	lf		\$9.46	0.00	\$0.00
02220-001	Remove Water structure	ea		\$50,000.00	0.00	\$0.00
02220-110	Building Demolition	sf		\$25.00	0.00	\$0.00
02230-100	Clearing and Grubbing	Ac		\$1,200.00	415.42	\$498,505.04
02230-100	Light Clearing	Ac		\$600.00	0.00	\$0.00
02230-102	Clear and Grub Levee Area	Ac		\$515.00	0.00	\$0.00
02230-200	Herbicide Treatment (for removal of exotic vegetation)	Ac		\$240.00	0.00	\$0.00
02230-300	Tree removal more 600 Tree/Ac	Ac		\$3,650.00	8.31	\$30,325.72
02230-310	Seeding and Mulching and Watering	Ac		\$1,200.00	0.00	\$0.00
02230-311	Seeding and Grassing	Ac		\$2,000.00	0.00	\$0.00
02240-0150	Dewatering, pumping 8 hr, unattended, 8" centrifugal pump	ea		\$238.49	0.00	\$0.00
02240-0160	Dewatering, pumping 8 hr, unattended, add per additional 8"pump	day		\$110.55	0.00	\$0.00
02240-100	Dewatering	cy		\$0.25	0.00	\$0.00
02300-100	Earthwork Construction to supply water to inflow canal	cy		\$4.00	0.00	\$0.00
02305-100	Mobilization/Demo of offices/equipment/personnel	LS		\$250,000.00	0.00	\$0.00
02315-100	Excavation (heavy) Includes Entrance Canal	cy		\$3.50	410,008.06	\$1,435,028.23
02315-101	Excavation (light) Includes Entrance Canal	cy		\$2.55	820,016.13	\$2,091,041.13
02315-320	Compact Spoil	cy		\$1.00	2,486,020.17	\$2,486,020.17
02315-416	Drilling and Blasting Canal	cy		\$1.00	820,016.13	\$820,016.13
02315-424	Excavate Existing Spoil	cy		\$1.00	410,008.06	\$410,008.06
02315-432	Peat Excavation	cy		\$0.60	820,016.13	\$492,009.68
02315-462	Cap rock Excavation	cy		\$2.00	820,016.13	\$1,640,032.26
02315-510	Place Spoil	cy		\$1.00	0.00	\$0.00
02320-0030	Backfill, FE loader, bulk up to 150' haul, no compaction	cy		\$1.40	0.00	\$0.00
02320-0030	Backfill, dozer backfill, bulk, up to 150' haul, no compaction	cy		\$1.00	0.00	\$0.00
02340-0010	Bedding, crushed stone 3/4" to 1/2"	cy		\$16.50	0.00	\$0.00
02340-0010	9" Bedding	cy		\$26.05	0.00	\$0.00
02360-0020	Compaction, sheepsfoot of wobbly wheel roller, 24" lift, select fill	cy		\$0.14	0.00	\$0.00
02360-0030	Compaction, Vibratory plate, 8" lifts, Subgrade	cy		\$1.15	0.00	\$0.00
02360-0031	Compaction, vibratory plate, 24" lifts, subgrade	cy		\$0.31	414,336.69	\$128,444.38
02360-0032	Compaction, vibratory plate, 24" lifts, Backfill	cy		\$0.31	414,336.69	\$128,444.38
02360-0040	Compaction, Vibratory plate, 8" lifts, Bedding	cy		\$1.15	0.00	\$0.00
02370-0050	Drilling and Blasting, bulk drilling and blasting, can vary greatly, avg	cy		\$2.00	0.00	\$0.00
02390-0010	Backhoe Excavation and Load Blasted Material	cy		\$1.56	820,016.13	\$1,279,225.16
02396-0050	Excavating and Loading Road, FE Loader , whl mtd, 1.5	cy		\$2.25	0.00	\$0.00
02396-0050	Excavate and Spread loose, 300' haul, FE LDR, whl mtd, 1.5 cy cap	cy		\$2.29	0.00	\$0.00
02430-0010	Fill, spread dumped matl, by dozer, no compaction	cy		\$1.03	290,035.69	\$298,736.76
02430-0030	Fill, spread f, from stockpile w/2-1/2 cy FE LDR, 130 HP, 300'haul	cy		\$1.54	0.00	\$0.00
02450-0010	Excavate Trench, cont ftg, no sht or dewater, 4'-6" D, 1.5 cy hyd bac	cy		\$1.66	0.00	\$0.00
02460-0010	Hauling, LCY, no loading, 16cy dump truck, 4 mile RT, 1.6 lds/hr	cy		\$2.84	124,301.01	\$353,014.86
02460-0020	Hauling, LCY, no loading, 12 cy Dump Truck, IDM, RT, .60 LDS/hr	cy		\$11.42	0.00	\$0.00
02460-0900	Loading trucks FE LDR, 3cy	cy		\$1.19	124,301.01	\$147,918.20
02470-0020	Soil Stabilization, geotex fabric, woven, HD, 600lb tensile set	cy		\$1.82	414,336.69	\$754,092.78
02480-0010	Rip-rap, random, machine placed for slope protection	cy		\$40.39	0.00	\$0.00
02500-0020	Bulkheads, reinforced concrete, 12' high	lf		\$289.29	0.00	\$0.00
02560-0990	Drainage, 8' X 8' precast Box culvert, 8' Section	lf		\$278.71	0.00	\$0.00
02630-100	Major Culvert Replacement	ea		\$100,000.00	1.00	\$100,000.00
02630-101	Minor Culvert Replacement	ea		\$35,000.00	5.00	\$175,000.00
02630-200	Internal Gated STR-1670 cfs	ea		\$82,000.00	0.00	\$0.00
02630-201	Internal Gated STR-1200 cfs	ea		\$65,000.00	0.00	\$0.00
02720-200	Temporary Construction (Shoo-fly: temporary by-pass)	ft		\$100.00	0.00	\$0.00
02720-200B	New Agr Bridges	EA		\$500,000.00	8.00	\$4,000,000.00
02740-310	Approach Reconstruction	ft		\$200.00	80.00	\$16,000.00
02840-0310	Seeding, mechanical seeding, 215 lb/acre	Ac		\$671.16	71.38	\$47,909.88
02840-0311	Hydro Seeding	Ac		\$2,130.00	0.00	\$0.00
02840-910	Traffic Control	LS		\$40,000.00	0.00	\$0.00
02850-100	Bridge Extension	sf		\$500.00	0.00	\$0.00

Item No.	Description	UOM	Soft Cost (%)	Cost	Quantity	Total
02850-102	Culvert Bridge	ls		\$750,000.00	0.00	\$0.00
02850-210A	Bridge Construction	sf		\$120.00	0.00	\$0.00
03300-001	12' X 22' precast concrete bldg + delivery	ea		\$25,902.13	0.00	\$0.00
05090-0010	Floor grating, alum, up to 300 sf, 1.5"1/8 bar, galvanized	sf		\$14.21	0.00	\$0.00
11010-001	Stilling Wells With Electrical and Telemetry	ea		\$30,000.00	0.00	\$0.00
11010-001	Stilling Well	pr		\$10,750.00	0.00	\$0.00
11040-001	Slide gate position sensor	ea		\$23,000.00	0.00	\$0.00
11040-0290	Hydraulic STR, slide gate, SS, ab & grout 96" X 96"	ea		\$17,875.33	0.00	\$0.00
11040-0380	Slide Gate-Hydraulic STR, stainless Stl , 72" X 72", elec oper	ea		\$38,331.82	0.00	\$0.00
11050-0290	Sluice Gate, Hydraulic STR, HD self cont with actuator, 84" X 60"	ea		\$46,029.05	0.00	\$0.00
15090-0220	Piping, Water dist, conc. Pipe, gasket, 72" dia	ea		\$10.17	0.00	\$0.00
15096-0120	Piping Drainage and Sewage, RCP, class 3, no gaskets, 72" dia	lf		\$152.32	0.00	\$0.00
15230-500	Farm Pump Station Relocation	ea		\$300,000.00	7.00	\$2,100,000.00
15230-501	Pump Station	cfs		\$6,000.00	0.00	\$0.00
15230-502	Retrofit Pump Station	cfs		\$500.00	0.00	\$0.00
15230-503	Telemetry for Pump Station	ea		\$500,000.00	0.00	\$0.00
15230-504	Extension of OH Powerline to Pump Station Area	Mi		\$95,000.00	1.78	\$169,100.00
16195-001	Power Distribution	mi		\$80,000.00	0.00	\$0.00
16195-001	Electrical Control Structure	ea		\$698,000.00	0.00	\$0.00
17150-001	Telemetry	ea		\$10,750.00	0.00	\$0.00
CNL-100	Canal Cross Enlargement	Ac		\$3,500.00	0.00	\$0.00
CNL-110	Canal Enlargement (average)	mi		\$1,122,500.00	0.00	\$0.00
CNL-200	Construction of borrow canal	cy		\$4.25	0.00	\$0.00
CNL-300	Conveyance Canal	Ac		\$3,500.00	0.00	\$0.00
CNL-301	Excavate Canal Extension	cy		\$6.50	0.00	\$0.00
CNL-400	Infill internal drainage canal	cy		\$2.75	0.00	\$0.00
DEG-100	Degrade Farm Roads	cy		\$2.25	0.00	\$0.00
DEG-101	Degrade Interior Agricultural Ditches	mi		\$20,000.00	0.00	\$0.00
DEG-102	Degrading Includes Balance Material Ac	Ac		\$1,000.00	0.00	\$0.00
PLG-01	Plug inflow	cy		\$3.50	0.00	\$0.00
SPILL-01	Spillway	cfs		\$1,200.00	0.00	\$0.00
STR 1	Control Structure	ea	Varies		0.00	\$0.00
STR 2	10' X 10' Gated Water Control Structure with Telemetric Control	ea		\$425,000.00	0.00	\$0.00
STR 3	6' X 10' Gated Water Control Inflow Structure	ea		\$475,000.00	0.00	\$0.00
STR 4	8' X 10' Gated Water Control Intermediate Structure	ea		\$375,000.00	0.00	\$0.00
STR 5	8'X8' Gated water control structure	ea		\$340,000.00	0.00	\$0.00
STR 6	9' X 10' gated water control structure	ea		\$80,950.00	0.00	\$0.00
STR 7	Construction of twin Barreled Water Control Structure	ea		\$950,000.00	0.00	\$0.00
STR 8	Precast 72" X 72" Gate Structure	ea		\$40,204.22	0.00	\$0.00
STR-EQ 1	Water Control STR Electrical and Telemetry	ea		\$50,950.00	0.00	\$0.00
USACE0815	Separation Levee	Ac		\$3,500.00	0.00	\$0.00
USACE-100	Construction of perimeter Levee	cy		\$3.50	0.00	\$0.00
USACE-101	Degrade Levee at Inflow Weir	cy		\$1.25	0.00	\$0.00
					Subtotal	\$19,635,872.81

Cont-1	Construction Cost Contingency	LS	30.0%		1.00	\$5,890,761.84
MISCTOOL1	Small Tools	LS	5%		1.00	\$981,793.64
MISCTOOL2	Equipment and Fuel Maintenance	LS	6%		1.00	\$1,178,152.37

TOTAL \$27,686,580.67

Land Cost						
	Land Acquisitions	Ac		\$7,000.00	230	\$1,609,019.18
Cont-2	Land Cost Contingency	LS	50.0%		1.00	\$804,509.59
LANDACQ	Land Acquisitions (appraisals, negotiations, etc..)	LS	2.5%		1.00	\$60,338.22
						\$2,473,866.98

Design Phase						
01107-200	Construction Management	LS	7.5%		1.00	\$2,076,493.55
01107-300	Engineering Planning and Design	LS	10.0%		1.00	\$2,768,658.07
01107-700	Program Management	LS	2.5%		1.00	\$692,164.52
						\$5,537,316.13

Operation and Maintenance						
15230-016	Power Supply to Pump Station	ea		\$2,000,000.00		\$0.00
						\$0.00

GRAND TOTAL \$35,697,763.78



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EAA REGIONAL FEASIBILITY STUDY
South Florida Water Management District
ADA Project No. C110-05-003
PROBABLE PLANNING-LEVEL OPINION OF CAPITAL COST
NORTH NEW RIVER

DATE: 10/03/05

Construction Cost						
Item No.	Description	UOM	Soft Cost (%)	Cost	Quantity	Total
01050-001	Temporary facilities	mo		\$2,500.00	0.00	\$0.00
01200-001	Rental-Crusher, Incl mob, de-mob and operation	ea		\$40,000.00	0.00	\$0.00
01200-001	Field Vehicles	ea		\$23,750.00	0.00	\$0.00
01250-001	Survey for Stage Monitor Set-up	ls		\$35,000.00	0.00	\$0.00
02060-0450	Site demo, pipe removal, sewer/water, no exc, 48"-6"0	cy		\$1.01	0.00	\$0.00
02070-1090	Equip, dml, 30" vertical turbine pump, motor, complete	ea		\$10,000.00	0.00	\$0.00
02170-0050	Saw cutting, concrete walls, rod reinforced, perim of depth	lf		\$9.46	0.00	\$0.00
02220-001	Remove Water structure	ea		\$50,000.00	0.00	\$0.00
02220-110	Building Demolition	sf		\$25.00	30,300.00	\$757,500.00
02230-100	Clearing and Grubbing	Ac		\$1,200.00	889.02	\$1,066,821.76
02230-100	Light Clearing	Ac		\$600.00	0.00	\$0.00
02230-102	Clear and Grub Levee Area	Ac		\$515.00	0.00	\$0.00
02230-200	Herbicide Treatment (for removal of exotic vegetation)	Ac		\$240.00	0.00	\$0.00
02230-300	Tree removal more 600 Tree/Ac	Ac		\$3,650.00	17.78	\$64,898.32
02230-310	Seeding and Mulching and Watering	Ac		\$1,200.00	0.00	\$0.00
02230-311	Seeding and Grassing	Ac		\$2,000.00	0.00	\$0.00
02240-0150	Dewatering, pumping 8 hr, unattended, 8" centrifugal pump	ea		\$238.49	0.00	\$0.00
02240-0160	Dewatering, pumping 8 hr, unattended, add per additional 8"pump	day		\$110.55	0.00	\$0.00
02240-100	Dewatering	cy		\$0.25	0.00	\$0.00
02300-100	Earthwork Construction to supply water to inflow canal	cy		\$4.00	0.00	\$0.00
02305-100	Mobilization/Demo of offices/equipment/personnel	LS		\$250,000.00	0.00	\$0.00
02315-100	Excavation (heavy) Includes Entrance Canal	cy		\$3.50	677,894.29	\$2,372,630.02
02315-101	Excavation (light) Includes Entrance Canal	cy		\$2.55	1,355,788.58	\$3,457,260.88
02315-320	Compact Spoil	cy		\$1.00	4,931,527.33	\$4,931,527.33
02315-416	Drilling and Blasting Canal	cy		\$1.00	1,355,788.58	\$1,355,788.58
02315-424	Excavate Existing Spoil	cy		\$1.00	677,894.29	\$677,894.29
02315-432	Peat Excavation	cy		\$0.60	1,355,788.58	\$813,473.15
02315-462	Cap rock Excavation	cy		\$2.00	1,355,788.58	\$2,711,577.16
02315-510	Place Spoil	cy		\$1.00	0.00	\$0.00
02320-0030	Backfill, FE loader, bulk up to 150' haul, no compaction	cy		\$1.40	0.00	\$0.00
02320-0030	Backfill, dozer backfill, bulk, up to 150' haul, no compaction	cy		\$1.00	0.00	\$0.00
02340-0010	Bedding, crushed stone 3/4" to 1/2"	cy		\$16.50	0.00	\$0.00
02340-0010	9" Bedding	cy		\$26.05	0.00	\$0.00
02360-0020	Compaction, sheepsfoot of wobbly wheel roller, 24" lift, select fill	cy		\$0.14	0.00	\$0.00
02360-0030	Compaction, Vibratory plate, 8" lifts, Subgrade	cy		\$1.15	0.00	\$0.00
02360-0031	Compaction, vibratory plate, 24" lifts, subgrade	cy		\$0.31	821,921.22	\$254,795.58
02360-0032	Compaction, vibratory plate, 24" lifts, Backfill	cy		\$0.31	821,921.22	\$254,795.58
02360-0040	Compaction, Vibratory plate, 8" lifts, Bedding	cy		\$1.15	0.00	\$0.00
02370-0050	Drilling and Blasting, bulk drilling and blasting, can vary greatly, avg	cy		\$2.00	0.00	\$0.00
02390-0010	Backhoe Excavation and Load Blasted Material	cy		\$1.56	1,355,788.58	\$2,115,030.19
02396-0050	Excavating and Loading Road, FE Loader , whl mtd, 1.5	cy		\$2.25	0.00	\$0.00
02396-0050	Excavate and Spread loose, 300' haul, FE LDR, whl mtd, 1.5 cy cap	cy		\$2.29	0.00	\$0.00
02430-0010	Fill, spread dumped matl, by dozer, no compaction	cy		\$1.03	575,344.86	\$592,605.20
02430-0030	Fill, spread f, from stockpile w/2-1/2 cy FE LDR, 130 HP, 300'haul	cy		\$1.54	0.00	\$0.00
02450-0010	Excavate Trench, cont ftg, no sht or dewater, 4'-6" D, 1.5 cy hyd bac	cy		\$1.66	0.00	\$0.00
02460-0010	Hauling, LCY, no loading, 16cy dump truck, 4 mile RT, 1.6 lds/hr	cy		\$2.84	246,576.37	\$700,276.88
02460-0020	Hauling, LCY, no loading, 12 cy Dump Truck, IDM, RT, .60 LDS/hr	cy		\$11.42	0.00	\$0.00
02460-0900	Loading trucks FE LDR, 3cy	cy		\$1.19	246,576.37	\$293,425.88
02470-0020	Soil Stabilization, geotex fabric, woven, HD, 600lb tensile set	cy		\$1.82	821,921.22	\$1,495,896.62
02480-0010	Rip-rap, random, machine placed for slope protection	cy		\$40.39	0.00	\$0.00
02500-0020	Bulkheads, reinforced concrete, 12' high	lf		\$289.29	0.00	\$0.00
02560-0990	Drainage, 8' X 8' precast Box culvert, 8' Section	lf		\$278.71	0.00	\$0.00
02630-100	Major Culvert Replacement	ea		\$100,000.00	0.00	\$0.00
02630-101	Minor Culvert Replacement	ea		\$35,000.00	0.00	\$0.00
02630-200	Internal Gated STR-1670 cfs	ea		\$82,000.00	0.00	\$0.00
02630-201	Internal Gated STR-1200 cfs	ea		\$65,000.00	0.00	\$0.00
02720-200	Temporary Construction (Shoo-fly: temporary by-pass)	ft		\$100.00	0.00	\$0.00
02720-200B	New Agr Bridges	EA		\$500,000.00	7.00	\$3,500,000.00
02740-310	Approach Reconstruction	ft		\$200.00	70.00	\$14,000.00
02840-0310	Seeding, mechanical seeding, 215 lb/acre	Ac		\$671.16	141.60	\$95,039.00
02840-0311	Hydro Seeding	Ac		\$2,130.00	0.00	\$0.00
02840-910	Traffic Control	LS		\$40,000.00	0.00	\$0.00
02850-100	Bridge Extension	sf		\$500.00	0.00	\$0.00

Item No.	Description	UOM	Soft Cost (%)	Cost	Quantity	Total
02850-102	Culvert Bridge	ls		\$750,000.00	0.00	\$0.00
02850-210A	Bridge Construction	sf		\$120.00	0.00	\$0.00
03300-001	12' X 22' precast concrete bldg + delivery	ea		\$25,902.13	3.00	\$77,706.39
05090-0010	Floor grating, alum, up to 300 sf, 1.5"1/8 bar, galvanized	sf		\$14.21	0.00	\$0.00
11010-001	Stilling Wells With Electrical and Telemetry	ea		\$30,000.00	0.00	\$0.00
11010-001	Stilling Well	pr		\$10,750.00	0.00	\$0.00
11040-001	Slide gate position sensor	ea		\$23,000.00	0.00	\$0.00
11040-0290	Hydraulic STR, slide gate, SS, ab & grout 96" X 96"	ea		\$17,875.33	0.00	\$0.00
11040-0380	Slide Gate-Hydraulic STR, stainless Stl , 72" X 72", elec oper	ea		\$38,331.82	0.00	\$0.00
11050-0290	Sluice Gate, Hydraulic STR, HD self cont with actuator, 84" X 60"	ea		\$46,029.05	0.00	\$0.00
15090-0220	Piping, Water dist, conc. Pipe, gasket, 72" dia	ea		\$10.17	0.00	\$0.00
15096-0120	Piping Drainage and Sewage, RCP, class 3, no gaskets, 72" dia	lf		\$152.32	0.00	\$0.00
15230-500	Farm Pump Station Relocation	ea		\$300,000.00	4.00	\$1,200,000.00
15230-501	Pump Station	cfs		\$6,000.00	0.00	\$0.00
15230-502	Retrofit Pump Station	cfs		\$500.00	0.00	\$0.00
15230-503	Telemetry for Pump Station	ea		\$500,000.00	0.00	\$0.00
15230-504	Extension of OH Powerline to Pump Station Area	Mi		\$95,000.00	0.61	\$57,950.00
16195-001	Power Distribution	mi		\$80,000.00	0.00	\$0.00
16195-001	Electrical Control Structure	ea		\$698,000.00	0.00	\$0.00
17150-001	Telemetry	ea		\$10,750.00	0.00	\$0.00
CNL-100	Canal Cross Enlargement	Ac		\$3,500.00	0.00	\$0.00
CNL-110	Canal Enlargement (average)	mi		\$1,122,500.00	0.00	\$0.00
CNL-200	Construction of borrow canal	cy		\$4.25	0.00	\$0.00
CNL-300	Conveyance Canal	Ac		\$3,500.00	0.00	\$0.00
CNL-301	Excavate Canal Extension	cy		\$6.50	0.00	\$0.00
CNL-400	Infill internal drainage canal	cy		\$2.75	0.00	\$0.00
DEG-100	Degrade Farm Roads	cy		\$2.25	0.00	\$0.00
DEG-101	Degrade Interior Agricultural Ditches	mi		\$20,000.00	0.00	\$0.00
DEG-102	Degrading Includes Balance Material Ac	Ac		\$1,000.00	0.00	\$0.00
PLG-01	Plug inflow	cy		\$3.50	0.00	\$0.00
SPILL-01	Spillway	cfs		\$1,200.00	0.00	\$0.00
STR 1	Control Structure	ea	Varies		0.00	\$0.00
STR 2	10' X 10' Gated Water Control Structure with Telemetric Control	ea		\$425,000.00	0.00	\$0.00
STR 3	6' X 10' Gated Water Control Inflow Structure	ea		\$475,000.00	0.00	\$0.00
STR 4	8' X 10' Gated Water Control Intermediate Structure	ea		\$375,000.00	0.00	\$0.00
STR 5	8'X8' Gated water control structure	ea		\$340,000.00	0.00	\$0.00
STR 6	9' X 10' gated water control structure	ea		\$80,950.00	0.00	\$0.00
STR 7	Construction of twin Barreled Water Control Structure	ea		\$950,000.00	0.00	\$0.00
STR 8	Precast 72" X 72" Gate Structure	ea		\$40,204.22	0.00	\$0.00
STR-EQ 1	Water Control STR Electrical and Telemetry	ea		\$50,950.00	0.00	\$0.00
USACE0815	Separation Levee	Ac		\$3,500.00	0.00	\$0.00
USACE-100	Construction of perimeter Levee	cy		\$3.50	0.00	\$0.00
USACE-101	Degrade Levee at Inflow Weir	cy		\$1.25	0.00	\$0.00
					Subtotal	\$28,860,892.82

Cont-1	Construction Cost Contingency	LS	30.0%		1.00	\$8,658,267.85
MISCTOOL1	Small Tools	LS	5%		1.00	\$1,443,044.64
MISCTOOL2	Equipment and Fuel Maintenance	LS	6%		1.00	\$1,731,653.57

TOTAL	\$40,693,858.88
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Land Cost						
	Land Acquisitions	Ac		\$7,000.00	528	\$3,695,820.44
Cont-2	Land Cost Contingency	LS	50.0%		1.00	\$1,847,910.22
LANDACQ	Land Acquisitions (appraisals, negotiations, etc..)	LS	2.5%		1.00	\$138,593.27
						\$5,682,323.92

Design Phase						
01107-200	Construction Management	LS	7.5%		1.00	\$3,052,039.42
01107-300	Engineering Planning and Design	LS	10.0%		1.00	\$4,069,385.89
01107-700	Program Management	LS	2.5%		1.00	\$1,017,346.47
						\$8,138,771.78

Operation and Maintenance						
15230-016	Power Supply to Pump Station	ea		\$2,000,000.00		\$0.00
						\$0.00

GRAND TOTAL	\$54,514,954.58
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TYPICAL CANAL QUANTITY TAKE-OFF APPROACH

The following pages include figures and tables explaining the process taken to quantify the cut/fill volumes and additional right-of-way widths. The sample take-off was done for the Hillsboro Canal for Alternative 1. Figures 1 thru 4 show the areas that are indicated in Tables 1 thru 4 below the figures. Figure 1 shows the area of existing canal below elevation 10 ft-NGVD. This elevation was assumed as the cut-off for both, existing and proposed, sections. Figure 2 shows the area of proposed canal and levee sectional area. Figure 3 shows the cut area for this typical section, which is quantified in Table 1 as the proposed canal area minus the existing canal area below elevation 10 ft-NGVD. Figure 4 shows the additional right-of-way required by the expansion of the canal and levee. Table 2 shows the total excavation volume as the accumulated volume to be used for estimating excavation costs in the estimates for each canal. Table 2 shows the top of levee elevation and width, as well as the total fill volume (levee volume) to used for the estimates per canal. In addition to the right-of-way necessary to account for the widened canal section and the levee construction, a check was done to see if there is more excavation volume than fill volume. Table 3 shows this calculation. If excess volume is encountered, then this average width will be added to the additional right-of-way required to get a total right-of-way required as shown in Table 4. The additional right-of-way required width times the length of canal being modified gives the total land acquisition area required.

TYPICAL CANAL QUANTITY TAKE-OFF APPROACH



Figure 1 – Hillsboro Canal Existing Typical Section

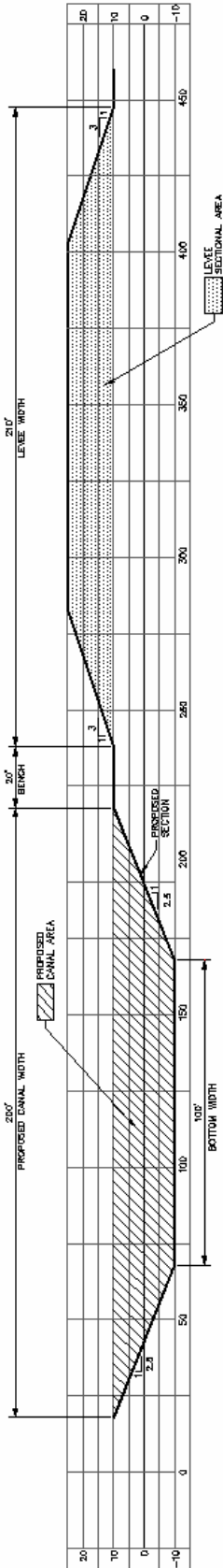


Figure 2 – Hillsboro Canal Proposed Typical Section

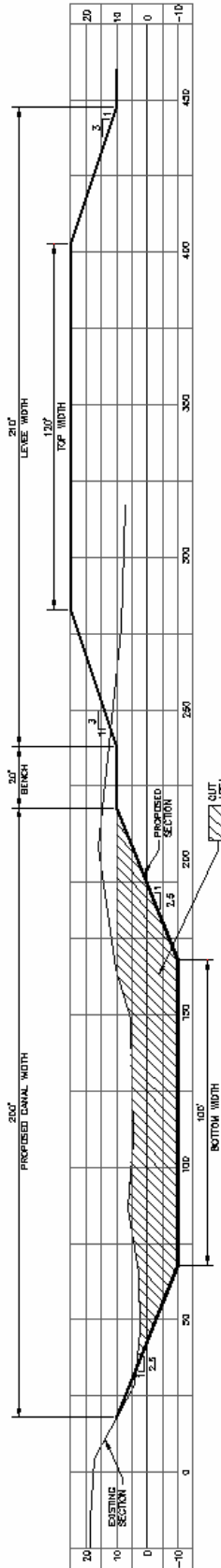


Figure 3 – Hillsboro Canal Cut Area (Proposed – Existing)

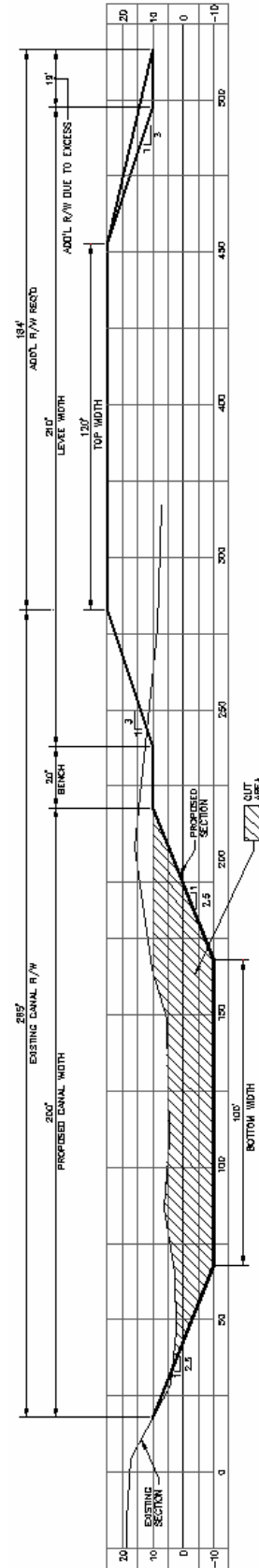


Figure 4 – Hillsboro Canal Additional Right-of-Way

Canal	Start Chainage	End Chainage	Levee Quantities for Flooded Canal				Levee Sectional Area (SF)	Levee Volume (CF)	Levee Volume (CY)
			Levee side-slope H:1	Top of Levee Elev. (ft-NGVD)	Top of Canal Elev. (ft-NGVD)	Top of Levee Width (FT)			
Hillsboro Canal	48,313	54,313	3	25	10	120	2475	14,850,000	550,000

TYPICAL CANAL QUANTITY TAKE-OFF APPROACH

Table 3 - Additional Right-of-Way Calculations for Hillsboro Canal

Chainage	Levee Sectional Area ¹ (SF)	Cut Area ² (SF)	Excess Cut ³ (SF)	Add'l Width to handle Excess ⁴ (FT)	Incremental Area ⁵ (SF)	Avg. Width ⁶ (FT)
48,313	2,475	2,555	80	56	-	19
48,480	2,475	2,561	86	56	9,382	
49,080	2,475	2,451	-24	0	16,940	
51,480	2,475	2,589	114	60	72,240	
52,080	2,475	2,450	-25	0	18,060	
53,280	2,475	2,266	-209	0	0	
54,313	2,475	311	-2,164	0	0	

Notes:

(1) See Table 2 above

(2) See Table 1 above

(3) See Table 1 above

(4) Additional width to handle excess volume not part of levee volume required

(5) Incremental Area to handle additional width per canal section length

(6) Average width based on the incremental area per canal section length

Table 4 - Additional Right-of-Way Calculations for Hillsboro Canal

Top of Levee Elev. (ft- NGVD)	Top of Canal Elev. (ft- NGVD)	Top of Levee Width (FT)	# of sides expanding	Levee Width toe-to- toe (FT)	Bench Width (FT)	Canal Bottom Width (FT)	Canal Bottom Elev. (ft- NGVD)	Canal side- slope H:1	Proposed Canal Width (FT)	Total Proposed R/W (FT)	Add'l R/W due to Excess (FT)	Existing R/W Width (FT)	Add'l R/W Req'd (FT)	Land Acquisition Area (AC)
25	10	120	1	210	20	100	-10	2.5	200	430	19	265	184	25



EAA Regional Feasibility Study
South Florida Water Management District
ADA Project #: C110-05-003

Alternative 1 - Operations & Maintenance Cash Flow Analysis					
Alt-1 Canal					
Vegetation Maintenance of Canals (per Ac)	65.1	\$33.77		30%	\$2,856.31
New Levee Grading Maintenance (per mi)	5.4	\$3,605.90		30%	\$25,480.33
Subtotal					\$28,336.64
Cross Canal					
Vegetation Maintenance of Canals (per Ac)	53.7	\$33.77		30%	\$2,356.25
Subtotal					\$2,356.25
Hillsboro Canal					
Vegetation Maintenance of Canals (per Ac)	13.2	\$33.77		30%	\$580.51
Subtotal					\$580.51
Sam Senter (OC-B1) Canal					
Vegetation Maintenance of Canals (per Ac)	27.1	\$33.77		30%	\$1,187.77
New Levee Grading Maintenance (per mi)	5.4	\$3,605.90		30%	\$25,520.28
Subtotal					\$26,708.05
North New River					
Vegetation Maintenance of Canals (per Ac)	232.1	\$33.77		30%	\$10,189.55
Subtotal					\$10,189.55
Ocean Canal					
Vegetation Maintenance of Canals (per Ac)	37.8	\$33.77		30%	\$1,657.68
Subtotal					\$1,657.68
Compartment B Pump Station					
Pump Power Demands (per cfs)	3200	\$327.80		30%	\$1,363,648.00
Pump Station Building Maintenance (bldg)	2	\$10,927.00		30%	\$28,410.20
Pump Maintenance (per pump)	8	\$2,731.75		30%	\$28,410.20
Subtotal					\$1,420,468.40
Gated Water Control Structures					
7' X 7' Gated Water Control Intermediate Structure (S-5AE)	1	\$8,742.00		30%	\$11,364.60
9' X 14' Gated Water Control Structure (S-155A)	2	\$8,742.00		30%	\$22,729.20
20' X 10.5' Gated Water Control Structure (Hillsboro Gate)	2	\$8,742.00		30%	\$22,729.20
WPB Gate	3	\$8,742.00		30%	\$34,093.80
Water Quality Monitoring	1	\$87,416.00		30%	\$113,640.80
Subtotal					\$204,557.60

Compartment B Works					
Vegetation Maintenance of STAs (per Ac)	8940	\$87.42	30%		\$1,015,995.24
Levee Grading Maintenance (per mi)	35	\$3,605.90	30%		\$162,825.51
Monitoring STAs	1	\$1,311,240.00	30%		\$1,704,612.00
Gate Maintenance (test, oil, etc)	19	\$8,742.00	30%		\$215,927.40
STA Site Manager	1	\$125,000.00	0%		\$125,000.00
Subtotal					\$3,224,360.15
Compartment C Works					
Vegetation Maintenance of STAs (per Ac)	6990	\$87.42	30%		\$794,385.54
Levee Grading Maintenance (per mi)	30	\$3,605.90	30%		\$142,760.86
Monitoring STAs	1	\$1,639,050.00	30%		\$2,130,765.00
Gate Maintenance (test, oil, etc)	23	\$8,742.00	30%		\$261,385.80
STA Site Manager	1	\$125,000.00	0%		\$125,000.00
Subtotal					\$3,454,297.20
Oversite Manager (HQ)					
O&M Staff (HQ)	1	\$200,000.00	0%		\$200,000.00
Subtotal					\$200,000.00
TOTALS					
Yearly Projected Cash Requirements for OM (w/o Cross Canal)					\$8,571,155.78
Yearly Projected Cash Requirements for OM for Cross Canal Only					\$2,356.25
Subtotal of OM					\$8,573,512.03



	2006				2007				2008				
Alternative 1 - Projected Cash Flow Analysis	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
Design Phase Cost	3/31/06	6/30/06	9/30/06	12/31/06	3/31/07	6/30/07	9/30/07	12/31/07	3/31/08	6/30/08	9/30/08	12/31/08	3/31/09
Engineering Planning and Design	\$ 1,293,360.36	\$ 2,029,237.81	\$ 2,051,537.13	\$ 2,051,537.13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 160,372.04	\$ 546,452.89	\$ 540,513.18	\$ 540,513.18	\$ 546,452.89	\$ 546,452.89	\$ 534,573.48
Program Management	\$ 70,830.95	\$ 111,131.32	\$ 112,352.55	\$ 112,352.55	\$ 109,910.10	\$ 111,131.32	\$ 112,352.55	\$ 112,352.55	\$ 111,131.32	\$ 111,131.32	\$ 112,352.55	\$ 112,352.55	\$ 109,910.10
Subtotal	\$ 1,364,191.32	\$ 2,140,369.14	\$ 2,163,889.68	\$ 2,163,889.68	\$ 109,910.10	\$ 111,131.32	\$ 272,724.59	\$ 658,805.44	\$ 651,644.51	\$ 651,644.51	\$ 658,805.44	\$ 658,805.44	\$ 644,483.58
Cross Canal													
Engineering Planning and Design	\$ 590,375.62	\$ 926,278.99	\$ 936,457.88	\$ 936,457.88	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction Management	\$ -	\$ -	\$ -	\$ -	\$ 98,880.65	\$ 409,006.31	\$ 413,500.88	\$ 413,500.88	\$ 409,006.31	\$ 409,006.31	\$ -	\$ -	\$ -
Program Management	\$ 46,518.59	\$ 72,986.06	\$ 73,788.11	\$ 73,788.11	\$ 72,184.02	\$ 72,986.06	\$ 73,788.11	\$ 73,788.11	\$ 72,986.06	\$ 72,986.06	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ -	\$ 1,318,408.60	\$ 5,453,417.40	\$ 5,513,345.07	\$ 5,513,345.07	\$ 5,453,417.40	\$ 5,453,417.40	\$ -	\$ -	\$ -
Land Acquisition and related costs	\$ 478,280.95	\$ 750,406.32	\$ 758,652.54	\$ 758,652.54	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual Operation and Maintenance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2.19	\$ 11.87	\$ 11.87	\$ 11.61
Subtotal	\$ 1,115,175.16	\$ 1,749,671.36	\$ 1,768,898.52	\$ 1,768,898.52	\$ 1,489,473.27	\$ 5,935,409.77	\$ 6,000,634.05	\$ 6,000,634.05	\$ 5,935,409.77	\$ 5,935,411.96	\$ 11.87	\$ 11.87	\$ 11.61
Construction Cost													
Alt-1 Canal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 455,441.90	\$ 1,551,876.11	\$ 1,535,007.89	\$ 1,535,007.89	\$ 1,551,876.11	\$ 1,551,876.11	\$ -
Hillsboro	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 331,759.56	\$ 1,130,439.97	\$ 1,118,152.58	\$ -	\$ -	\$ -	\$ -
Sam Senter (OC-B1)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 508,489.50	\$ 1,732,630.89	\$ 1,713,797.95	\$ 1,713,797.95	\$ 1,732,630.89	\$ 1,732,630.89	\$ 1,694,965.01
North New River	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,394,332.73	\$ 4,751,059.67	\$ 4,699,417.71	\$ 4,699,417.71	\$ 4,751,059.67	\$ 4,751,059.67	\$ 4,647,775.76
Ocean	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 313,429.86	\$ 1,067,983.21	\$ 1,056,374.70	\$ 1,056,374.70	\$ 1,067,983.21	\$ 1,067,983.21	\$ 1,044,766.19
Compartment B Pump Stations	\$ 2,444,785.95	\$ 3,835,784.85	\$ 3,877,936.33	\$ 3,877,936.33	\$ 3,793,633.37	\$ 3,835,784.85	\$ 3,877,936.33	\$ 3,877,936.33	\$ 3,835,784.85	\$ 3,835,784.85	\$ 3,877,936.33	\$ -	\$ -
Compartment B Works	\$ -	\$ -	\$ -	\$ 105,683.06	\$ 4,755,737.70	\$ 4,808,579.23	\$ 4,861,420.77	\$ 4,861,420.77	\$ 4,808,579.23	\$ 4,808,579.23	\$ 4,861,420.77	\$ 4,861,420.77	\$ 4,755,737.70
Compartment C Works	\$ -	\$ -	\$ -	\$ 85,743.17	\$ 3,858,442.62	\$ 3,901,314.21	\$ 3,944,185.79	\$ 3,944,185.79	\$ 3,901,314.21	\$ 3,901,314.21	\$ 3,944,185.79	\$ 3,944,185.79	\$ 3,858,442.62
Hillsboro Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 521,739.13
S-5AE Gate	\$ 40,960.45	\$ 64,265.54	\$ 64,971.75	\$ 64,971.75	\$ 63,559.32	\$ 64,265.54	\$ 64,971.75	\$ 64,971.75	\$ 64,265.54	\$ 64,265.54	\$ 64,971.75	\$ 64,971.75	\$ -
S-155A Gate	\$ 23,210.92	\$ 36,417.14	\$ 36,817.33	\$ 36,817.33	\$ 36,016.95	\$ 36,417.14	\$ 36,817.33	\$ 36,817.33	\$ 36,417.14	\$ 36,417.14	\$ 36,817.33	\$ 36,817.33	\$ -
West Palm Beach Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 347,826.09
Equip., demolition, 30" farm pumps	\$ 10,922.79	\$ 17,137.48	\$ 17,325.80	\$ 17,325.80	\$ 16,949.15	\$ 17,137.48	\$ 17,325.80	\$ 17,325.80	\$ 17,137.48	\$ 17,137.48	\$ 17,325.80	\$ 17,325.80	\$ -
Dewatering	\$ 378.88	\$ 594.46	\$ 600.99	\$ 600.99	\$ 587.92	\$ 594.46	\$ 600.99	\$ 600.99	\$ 594.46	\$ 594.46	\$ 600.99	\$ 600.99	\$ -
Rip-rap, random, machine placed for slope protection	\$ 2,117.62	\$ 3,322.48	\$ 3,358.99	\$ 3,358.99	\$ 3,285.97	\$ 3,322.48	\$ 3,358.99	\$ 3,358.99	\$ 3,322.48	\$ 3,322.48	\$ 3,358.99	\$ 3,358.99	\$ -
Bulkheads, reinforced concrete, 12' high	\$ 3,033.46	\$ 4,759.39	\$ 4,811.69	\$ 4,811.69	\$ 4,707.09	\$ 4,759.39	\$ 4,811.69	\$ 4,811.69	\$ 4,759.39	\$ 4,759.39	\$ 4,811.69	\$ 4,811.69	\$ -
Subtotal	\$ 2,525,410.08	\$ 3,962,281.33	\$ 4,005,822.88	\$ 4,197,249.11	\$ 12,532,920.10	\$ 12,672,174.77	\$ 15,814,882.98	\$ 23,045,419.29	\$ 22,794,925.61	\$ 21,676,773.03	\$ 21,914,979.33	\$ 18,037,042.99	\$ 16,871,252.50
Land Acqisition and Related Costs													
Alt-1 Canal	\$ 249,425.08	\$ 391,339.35	\$ 395,639.78	\$ 395,639.78	\$ 387,038.92	\$ 391,339.35	\$ 395,639.78	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Hillsboro	\$ 35,590.04	\$ 55,839.55	\$ 56,453.17	\$ 56,453.17	\$ 55,225.93	\$ 55,839.55	\$ 56,453.17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sam Senter (OC-B1)	\$ 433,506.94	\$ 680,157.43	\$ 687,631.69	\$ 687,631.69	\$ 672,683.18	\$ 680,157.43	\$ 687,631.69	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
North New River	\$ 626,568.04	\$ 983,063.64	\$ 993,866.54	\$ 993,866.54	\$ 972,260.75	\$ 983,063.64	\$ 993,866.54	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ocean	\$ 132,015.69	\$ 209,128.06	\$ 209,404.19	\$ 209,404.19	\$ 204,851.93	\$ 209,128.06	\$ 209,404.19	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal	\$ 1,477,105.78	\$ 2,317,528.04	\$ 2,342,995.38	\$ 2,342,995.38	\$ 2,292,060.70	\$ 2,317,528.04	\$ 2,342,995.38	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operation and Maintenance													
Alt-1 Canal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 83.79	\$ 139.65
Hillsboro	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.41	\$ 2.89	\$ 2.92	\$ 2.92	\$ 2.86
Sam Senter (OC-B1)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
North New River	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ocean	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Hillsboro Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S-5AE Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1.24	\$ 56.01
S-155A Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2.49	\$ 112.02
West Palm Beach Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water Quality Monitoring for Gates	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12.45	\$ 560.05
Compartment B Pump Stations	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,744.75	\$ 7,156.01	\$ 7,000.45
Compartment B Works	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Compartment C Works	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Oversight Manager	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 136.86	\$ 958.00	\$ 968.52	\$ 968.52	\$ 947.47
Annual Operation and Maintenance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 137.27	\$ 960.89	\$ 5,716.19	\$ 8,227.43	\$ 8,818.50
TOTALS													
Qtrly ProjectedExpenses	\$ 6,481,882.33	\$ 10,169,849.87	\$ 10,281,606.46	\$ 10,473,032.69	\$ 16,424,364.16	\$ 21,036,243.90	\$ 24,431,237.01	\$ 29,704,858.78	\$ 29,382,117.15	\$ 28,264,790.39	\$ 22,579,512.83	\$ 18,704,087.73	\$ 17,524,566.19
TOTAL Annual-to-date Projected Expenses	\$6,481,882	\$16,651,732	\$26,933,339	\$37,406,371	\$53,830,736	\$74,866,979	\$99,298,216	\$129,003,075	\$158,385,192	\$186,649,983	\$209,229,496	\$227,933,583	\$245,458,149

	2009			2010				2011				TOTALS
Alternative 1 - Projected Cash Flow Analysis	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Design Phase Cost	6/30/09	9/30/09	12/31/09	3/31/10	6/30/10	9/30/10	12/31/10	3/31/11	6/30/11	9/30/11	12/31/11	
Engineering Planning and Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$7,425,672
Construction Management	\$ 540,513.18	\$ 546,452.89	\$ 546,452.89	\$ 534,573.48	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$5,583,323
Program Management	\$ 111,131.32	\$ 112,352.55	\$ 112,352.55	\$ 109,910.10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$1,855,038
Subtotal	\$ 651,644.51	\$ 658,805.44	\$ 658,805.44	\$ 644,483.58	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$14,864,034
Cross Canal												
Engineering Planning and Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,389,570.35
Construction Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,152,901.32
Program Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$705,799
Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$28,705,351
Land Acquisition and related costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$2,745,992
Annual Operation and Maintenance	\$ 11.74	\$ 11.87	\$ 11.87	\$ 11.61	\$ 11.74	\$ 11.87	\$ 11.87	\$ 11.61	\$ 11.74	\$ 11.87	\$ 11.87	\$167
Subtotal	\$ 11.74	\$ 11.87	\$ 11.87	\$ 11.61	\$ 11.74	\$ 11.87	\$ 11.87	\$ 11.61	\$ 11.74	\$ 11.87	\$ 11.87	\$37,699,781
Construction Cost												
Alt-1 Canal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$8,181,086
Hillsboro	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$2,580,352
Sam Senter (OC-B1)	\$ 1,713,797.95	\$ 1,732,630.89	\$ 1,732,630.89	\$ 1,694,965.01	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$17,702,968
North New River	\$ 4,699,417.71	\$ 4,751,059.67	\$ 4,751,059.67	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$43,895,660
Ocean	\$ 1,056,374.70	\$ 1,067,983.21	\$ 1,067,983.21	\$ 1,044,766.19	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$10,912,002
Compartment B Pump Stations	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$40,971,240
Compartment B Works	\$ 4,808,579.23	\$ 4,861,420.77	\$ 4,861,420.77	\$ 4,755,737.70	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$62,775,738
Compartment C Works	\$ 3,901,314.21	\$ 3,944,185.79	\$ 3,944,185.79	\$ 3,858,442.62	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$50,931,443
Hillsboro Gate	\$ 1,396,419.44	\$ 1,411,764.71	\$ 1,411,764.71	\$ 1,381,074.17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$6,122,762
S-5AE Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$751,412
S-155A Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$425,800
West Palm Beach Gate	\$ 930,946.29	\$ 941,176.47	\$ 941,176.47	\$ 920,716.11	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$4,081,841
Equip., demolition, 30" farm pumps	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$200,377
Dewatering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$6,951
Rip-rap, random, machine placed for slope protection	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$38,847
Bulkheads, reinforced concrete, 12' high	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$55,648
Subtotal	\$ 18,506,849.54	\$ 18,710,221.51	\$ 18,710,221.51	\$ 13,655,701.80	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$249,634,128
Land Acqisition and Related Costs												
Alt-1 Canal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$2,606,062
Hillsboro	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$371,855
Sam Senter (OC-B1)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$4,529,400
North New River	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$6,546,556
Ocean	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$1,379,336
Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$15,433,209
Operation and Maintenance												
Alt-1 Canal	\$ 141.20	\$ 142.75	\$ 142.75	\$ 139.65	\$ 141.20	\$ 142.75	\$ 142.75	\$ 139.65	\$ 141.20	\$ 142.75	\$ 142.75	\$1,783
Hillsboro	\$ 2.89	\$ 2.92	\$ 2.92	\$ 2.86	\$ 2.89	\$ 2.92	\$ 2.92	\$ 2.86	\$ 2.89	\$ 2.92	\$ 2.92	\$44
Sam Senter (OC-B1)	\$ -	\$ -	\$ -	\$ 109.69	\$ 133.09	\$ 134.55	\$ 134.55	\$ 131.62	\$ 133.09	\$ 134.55	\$ 134.55	\$1,046
North New River	\$ -	\$ -	\$ 34.59	\$ 50.22	\$ 50.77	\$ 51.33	\$ 51.33	\$ 50.22	\$ 50.77	\$ 51.33	\$ 51.33	\$442
Ocean	\$ -	\$ -	\$ -	\$ 6.81	\$ 8.26	\$ 8.35	\$ 8.35	\$ 8.17	\$ 8.26	\$ 8.35	\$ 8.35	\$65
Hillsboro Gate	\$ -	\$ -	\$ -	\$ 9.96	\$ 113.25	\$ 114.50	\$ 114.50	\$ 112.01	\$ 113.25	\$ 114.50	\$ 114.50	\$806
S-5AE Gate	\$ 56.63	\$ 57.25	\$ 57.25	\$ 56.01	\$ 56.63	\$ 57.25	\$ 57.25	\$ 56.01	\$ 56.63	\$ 57.25	\$ 57.25	\$683
S-155A Gate	\$ 113.26	\$ 114.50	\$ 114.50	\$ 112.02	\$ 113.26	\$ 114.50	\$ 114.50	\$ 112.02	\$ 113.26	\$ 114.50	\$ 114.50	\$1,365
West Palm Beach Gate	\$ -	\$ -	\$ -	\$ 14.93	\$ 169.88	\$ 171.75	\$ 171.75	\$ 168.01	\$ 169.88	\$ 171.75	\$ 171.75	\$1,210
Water Quality Monitoring for Gates	\$ 566.27	\$ 572.50	\$ 572.50	\$ 560.05	\$ 566.27	\$ 572.50	\$ 572.50	\$ 560.05	\$ 566.27	\$ 572.50	\$ 572.50	\$6,826
Compartment B Pump Stations	\$ 7,078.23	\$ 7,156.01	\$ 7,156.01	\$ 7,000.45	\$ 7,078.23	\$ 7,156.01	\$ 7,156.01	\$ 7,000.45	\$ 7,078.23	\$ 7,156.01	\$ 7,156.01	\$97,073
Compartment B Works	\$ -	\$ -	\$ -	\$ 15,890.51	\$ 16,067.07	\$ 16,243.63	\$ 16,243.63	\$ 15,890.51	\$ 16,067.07	\$ 16,243.63	\$ 16,243.63	\$128,890
Compartment C Works	\$ -	\$ -	\$ -	\$ 17,023.70	\$ 17,212.85	\$ 17,402.00	\$ 17,402.00	\$ 17,023.70	\$ 17,212.85	\$ 17,402.00	\$ 17,402.00	\$138,081
Oversight Manager	\$ 958.00	\$ 968.52	\$ 968.52	\$ 947.47	\$ 958.00	\$ 968.52	\$ 968.52	\$ 947.47	\$ 958.00	\$ 968.52	\$ 968.52	\$14,559
Annual Operation and Maintenance	\$ 8,916.48	\$ 9,014.47	\$ 9,049.06	\$ 41,924.31	\$ 42,671.66	\$ 43,140.58	\$ 43,140.58	\$ 42,202.74	\$ 42,671.66	\$ 43,140.58	\$ 43,140.58	\$392,873
TOTALS												
Qtrly ProjectedExpenses	\$ 19,167,422.27	\$ 19,378,053.28	\$ 19,378,087.88	\$ 14,342,121.30	\$ 42,683.40	\$ 43,152.45	\$ 43,152.45	\$ 42,214.35	\$ 42,683.40	\$ 43,152.45	\$ 43,152.45	\$ 318,024,025.14
TOTAL Annual-to-date Projected Expenses	\$264,625,572	\$284,003,625	\$303,381,713	\$317,723,834	\$317,766,518	\$317,809,670	\$317,852,823	\$317,895,037	\$317,937,720	\$317,980,873	\$318,024,025	

Alternative 1 Net Present Worth

Present Date

2/1/06

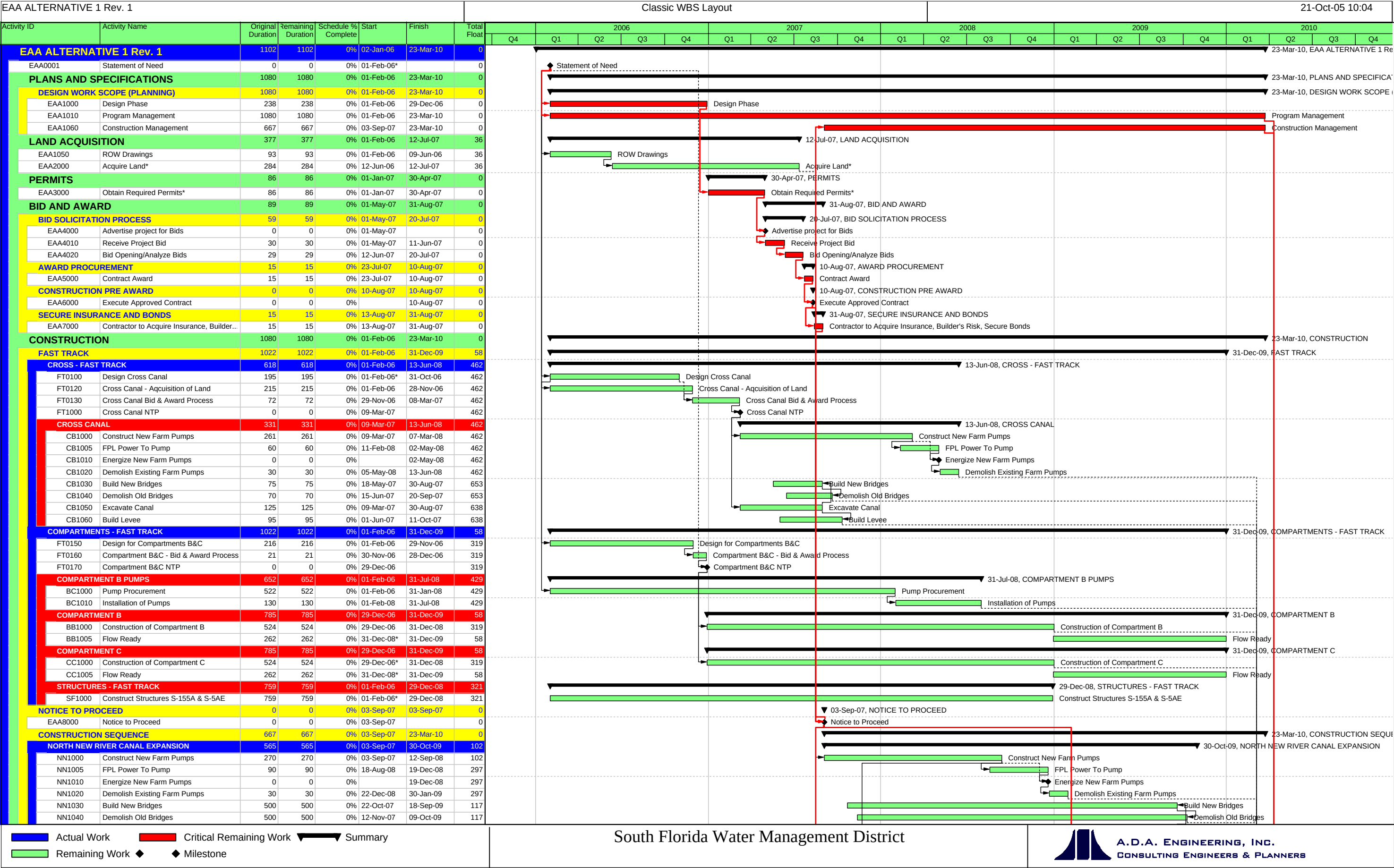
Escalation Rate (Compounded Annually)

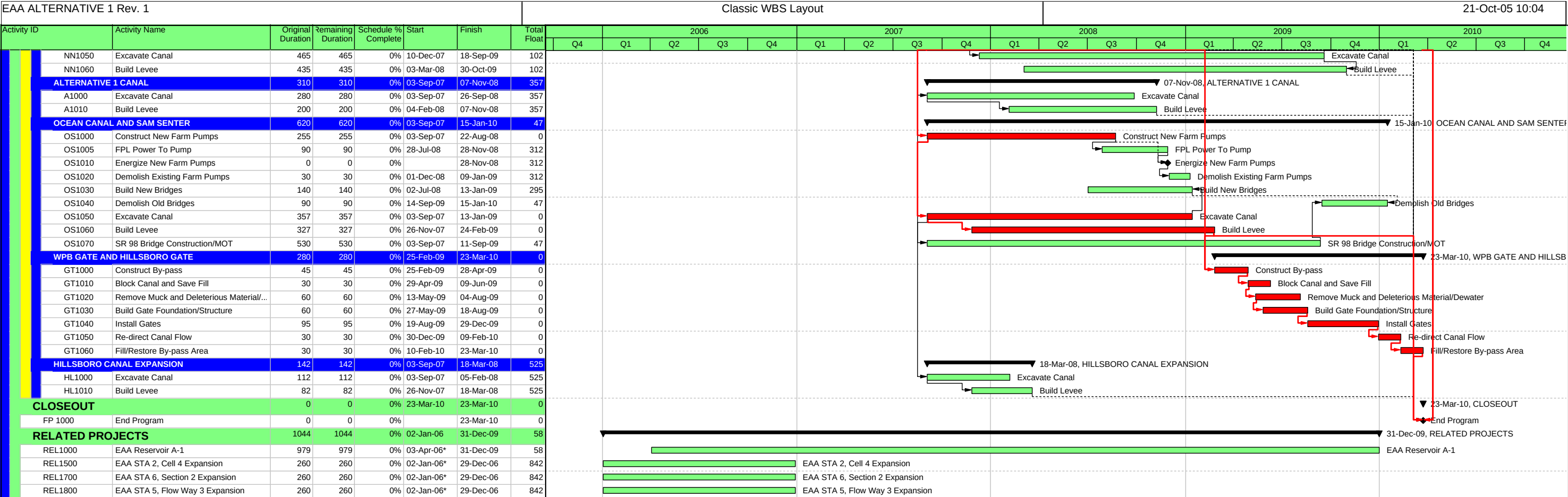
3% Annually

Discount Rate (Compounded Monthly)

6.375% Annually

Design Phase Cost	Begin	End	2006 Cost	years	Escalated Value	mid-Date	months	Present Worth Value
Engineering Planning and Design	2/1/06	12/29/06	\$ 7,381,073.80	0	\$ 7,381,073.80	7/16/06	5.44	\$ 7,171,320.57
Construction Management	9/3/07	3/23/10	\$ 5,535,805.35	4	\$ 6,230,597.69	12/12/08	34.36	\$ 5,193,657.89
Program Management	2/1/06	3/23/10	\$ 1,845,268.45	5	\$ 2,139,171.88	2/26/08	24.84	\$ 1,875,385.58
Subtotal			\$ 14,762,147.61					\$ 14,240,364.04
Cross Canal	Begin	End	2006 Cost	years	Escalated Value	mid-Date	months	Present Worth Value
Engineering Planning and Design	2/1/06	10/31/06	\$ 2,768,658.07	0	\$ 2,768,658.07	6/17/06	4.47	\$ 2,703,837.87
Construction Management	3/9/07	6/13/08	\$ 2,076,493.55	2	\$ 2,202,952.01	10/26/07	20.78	\$ 1,973,299.26
Program Management	2/1/06	6/13/08	\$ 692,164.52	2	\$ 734,317.34	4/8/07	14.19	\$ 681,145.56
Construction	3/9/07	6/13/08	\$ 27,686,580.67	2	\$ 29,372,693.43	10/26/07	20.78	\$ 26,310,656.79
Land Acquisition and related costs	2/1/06	11/28/06	\$ 2,473,866.98	0	\$ 2,473,866.98	7/1/06	4.93	\$ 2,410,063.80
Annual Operation and Maintenance	6/13/08	6/13/58	\$ 2,356.25	52	\$ 295,349.33	6/13/33	328.57	\$ 51,792.83
Subtotal			\$ 35,700,120.04					\$ 34,130,796.11
Construction Cost	Begin	End	2006 Cost	years	Escalated Value	mid-Date	months	Present Worth Value
Alt-1 Canal	9/3/07	11/7/08	\$ 7,270,202.22	2	\$ 7,712,957.54	4/5/08	26.12	\$ 6,716,072.91
Hillsboro	9/3/07	3/18/08	\$ 2,420,616.02	2	\$ 2,568,031.54	12/10/07	22.27	\$ 2,282,160.07
Sam Senter (OC-B1)	9/3/07	1/15/10	\$ 16,290,497.00	4	\$ 18,335,097.89	11/8/08	33.25	\$ 15,373,091.24
North New River	9/3/07	10/30/09	\$ 40,693,858.88	3	\$ 44,467,278.33	10/1/08	31.99	\$ 37,534,542.22
Ocean	9/3/07	1/15/10	\$ 10,041,363.91	4	\$ 11,301,643.54	11/8/08	33.25	\$ 9,475,880.54
Compartment B Pump Stations	2/1/06	7/31/08	\$ 38,400,000.00	2	\$ 40,738,560.00	5/2/07	14.98	\$ 37,631,035.94
Compartment B Works	12/29/06	12/31/09	\$ 58,020,000.00	3	\$ 63,400,020.54	6/30/08	28.93	\$ 54,389,568.34
Compartment C Works	12/29/06	12/31/09	\$ 47,073,000.00	3	\$ 51,437,938.07	6/30/08	28.93	\$ 44,127,544.82
Hillsboro Gate	2/25/09	3/23/10	\$ 6,000,000.00	4	\$ 6,753,052.86	9/8/09	43.25	\$ 5,370,069.47
S-5AE Gate	2/1/06	12/29/08	\$ 750,000.00	2	\$ 795,675.00	7/17/07	17.46	\$ 725,378.18
S-155A Gate	2/1/06	12/29/08	\$ 425,000.00	2	\$ 450,882.50	7/17/07	17.46	\$ 411,047.63
West Palm Beach Gate	2/25/09	3/23/10	\$ 4,000,000.00	4	\$ 4,502,035.24	9/8/09	43.25	\$ 3,580,046.31
Equip., demolition, 30" farm pumps	2/1/06	12/29/08	\$ 200,000.00	2	\$ 212,180.00	7/17/07	17.46	\$ 193,434.18
Dewatering	2/1/06	12/29/08	\$ 6,937.50	2	\$ 7,359.99	7/17/07	17.46	\$ 6,709.75
Rip-rap, random, machine placed for slope protection	2/1/06	12/29/08	\$ 38,774.40	2	\$ 41,135.76	7/17/07	17.46	\$ 37,501.47
Bulkheads, reinforced concrete, 12' high	2/1/06	12/29/08	\$ 55,543.68	2	\$ 58,926.29	7/17/07	17.46	\$ 53,720.23
Subtotal			\$ 231,685,793.61					\$ 217,907,803.30
Land Acquisition and Related Costs	Begin	End	2006 Cost	years	Escalated Value	mid-Date	months	Present Worth Value
Alt-1 Canal	2/1/06	7/12/07	\$ 2,262,027.46	1	\$ 2,329,888.29	10/22/06	8.65	\$ 2,225,556.45
Hillsboro	2/1/06	7/12/07	\$ 322,764.85	1	\$ 332,447.80	10/22/06	8.65	\$ 317,560.87
Sam Senter (OC-B1)	2/1/06	7/12/07	\$ 3,931,459.46	1	\$ 4,049,403.24	10/22/06	8.65	\$ 3,868,071.94
North New River	2/1/06	7/12/07	\$ 5,682,323.92	1	\$ 5,852,793.64	10/22/06	8.65	\$ 5,590,706.95
Ocean	2/1/06	7/12/07	\$ 1,197,245.71	1	\$ 1,233,163.08	10/22/06	8.65	\$ 1,177,942.33
Subtotal			\$ 13,395,821.41					\$ 13,179,838.53
Operation and Maintenance	Begin	End	2006 Cost	years	Escalated Value	mid-Date	months	Present Worth Value
Alt-1 Canal	11/7/08	11/7/58	\$ 28,336.64	52	\$ 3,551,915.00	11/7/33	333.40	\$ 607,121.10
Hillsboro	3/18/08	3/18/58	\$ 580.51	52	\$ 72,765.12	3/18/33	325.71	\$ 12,955.04
Sam Senter (OC-B1)	1/15/10	1/15/60	\$ 26,708.05	54	\$ 3,607,499.60	1/15/35	347.67	\$ 571,723.54
North New River	10/30/09	10/30/59	\$ 10,189.55	53	\$ 1,376,319.17	10/30/34	345.14	\$ 221,067.12
Ocean	1/15/10	1/15/60	\$ 1,657.68	54	\$ 223,906.07	1/15/35	347.67	\$ 35,485.07
Hillsboro Gate	3/23/10	3/23/60	\$ 22,729.20	54	\$ 3,070,069.86	3/23/35	349.89	\$ 480,863.18
S-5AE Gate	12/29/08	12/29/58	\$ 11,364.60	52	\$ 1,424,519.45	12/29/33	335.11	\$ 241,294.40
S-155A Gate	12/29/08	12/29/58	\$ 22,729.20	52	\$ 2,849,038.91	12/29/33	335.11	\$ 482,588.80
West Palm Beach Gate	3/23/10	3/23/60	\$ 34,093.80	54	\$ 4,605,104.79	3/23/35	349.89	\$ 721,294.78
Water Quality Monitoring for Gates	12/29/08	12/29/58	\$ 113,640.80	52	\$ 14,244,542.72	12/29/33	335.11	\$ 2,412,833.59
Compartment B Pump Stations	7/31/08	7/31/58	\$ 1,420,468.40	52	\$ 178,051,569.59	7/31/33	330.15	\$ 30,963,362.71
Compartment B Works	12/31/09	12/31/59	\$ 3,224,360.15	53	\$ 419,610,152.13	12/31/34	347.18	\$ 66,674,620.01
Compartment C Works	12/31/09	12/31/59	\$ 3,454,297.20	53	\$ 449,533,584.05	12/31/34	347.18	\$ 71,429,351.14
Oversight Manager	3/18/08	3/23/60	\$ 200,000.00	54	\$ 27,014,323.94	3/21/34	337.81	\$ 4,510,965.38
Annual Operation and Maintenance			\$ 8,571,155.78					\$ 179,365,525.85
TOTALS								
TOTAL Net Present Worth								\$ 458,824,327.82
TOTAL Net Present Worth without Compartments B/C								\$ 153,608,844.85





Actual Work

Remaining Work

Critical Remaining Work

Milestone

Summary

South Florida Water Management District

A.D.A. ENGINEERING, INC.

CONSULTING ENGINEERS & PLANNERS

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EAA REGIONAL FEASIBILITY STUDY
South Florida Water Management District
ADA Project No. C110-05-003

PROBABLE PLANNING-LEVEL OPINION OF CAPITAL COST

ALTERNATIVE 2- OPTION A

DATE: 10/03/05

DESIGN PHASE

ITEM NO.	DESCRIPTION	UOM	COST	QUANTITY	TOTAL
1	Ocean Canal	ls	\$2,008,273	1.00	\$2,008,273
2	Hillsboro	ls	\$484,123	1.00	\$484,123
3	Cross Canal	ls	\$5,537,316	1.00	\$5,537,316
4	North New River	ls	\$8,138,772	1.00	\$8,138,772
5	L-7 Canal	ls	\$3,604,316	1.00	\$3,604,316
5a	Environmental Permitting	ls	\$500,000	1.00	\$500,000
6	S-6 Diversion	ls	\$119,898	1.00	\$119,898
7	STA-2 Supply	ls	\$686,964	1.00	\$686,964
8	STA- 2 Inflow Canal	ls	\$1,052,744	1.00	\$1,052,744
DESIGN PHASE TOTAL					\$22,132,405

CONSTRUCTION COST

ITEM NO.	DESCRIPTION	UOM	COST	QUANTITY	TOTAL
1	Ocean Canal	ls	\$10,041,364	1.00	\$10,041,364
2	Hillsboro	ls	\$2,420,616	1.00	\$2,420,616
3	Cross Canal	ls	\$27,686,581	1.00	\$27,686,581
4	North New River	ls	\$40,693,859	1.00	\$40,693,859
5	L-7 Canal	ls	\$18,021,579	1.00	\$18,021,579
6	S-6 Diversion	ls	\$599,489	1.00	\$599,489
7	STA-2 Supply	ls	\$3,434,819	1.00	\$3,434,819
8	STA- 2 Inflow Canal	ls	\$5,263,718	1.00	\$5,263,718
02070-1090	Equip, demolition, 30" farm pumps	ea	\$10,000.00	20.00	\$200,000
02240-100	Dewatering	cy	\$0.25	27,750.00	\$6,938
02480-0010	Rip-rap, random, machine placed for slope protection	cy	\$40.39	960.00	\$38,774
02500-0020	Bulkheads, reinforced concrete, 12' high	lf	\$289.29	192.00	\$55,544
	7' X 7' Gates (Str. S-5AE)	ea	\$375,000	2.00	\$750,000
	10' X 10' Gates (Str. G-251G)	ea	\$400,000	2.00	\$800,000
	9' X 14' Gate (Str. S-155A)	ea	\$425,000	1.00	\$425,000
	20' X 10.5' Gate (Hillsboro gate)	ea	\$2,000,000	3.00	\$6,000,000
	20' X 15' Gate (Str. G-338A)	ea	\$3,000,000	4.00	\$12,000,000
	Increase pumping capacity of A-1 NE pump station to 5000 cfs	cfs	\$10,000	2,000.00	\$20,000,000
CONSTRUCTION COST TOTAL					\$148,438,280

COMPARTMENT B/C

ITEM NO.	DESCRIPTION	UOM	COST	QUANTITY	TOTAL
15230-501	Compartment B outflow Pump Station (1 - 1600 cfs)	cfs	\$12,000	1,600.00	\$19,200,000
	**Compartment B works	ls	\$58,020,000	1.00	\$58,020,000
	Compartment C works	ls	\$47,073,000	1.00	\$47,073,000
COMPARTMENT B/C TOTAL					\$124,293,000

LAND ACQUISITION

ITEM NO.	DESCRIPTION	UOM	COST	QUANTITY	TOTAL
1	Ocean Canal	ls	\$1,197,246	1.00	\$1,197,246
2	Hillsboro	ls	\$322,765	1.00	\$322,765
3	Cross Canal	ls	\$2,473,867	1.00	\$2,473,867
4	North New River	ls	\$5,682,324	1.00	\$5,682,324
5	L-7 Canal	ls	\$0	1.00	\$0
6	S-6 Diversion	ls	\$0	1.00	\$0
7	STA-2 Supply	ls	\$752,802	1.00	\$752,802
8	STA- 2 Inflow Canal	ls	\$713,074	1.00	\$713,074
LAND ACQUISITION TOTAL					\$11,142,077

TOTAL PROBABLE COST

\$306,005,762

** Compartment B works cost includes the structure removal of G-336G located in L-6 canal



A.D.A. Engineering, Inc.
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EAA REGIONAL FEASIBILITY STUDY
South Florida Water Management District
ADA Project No. C110-05-003
CUT AND FILL COST
ALTERNATIVE 2- OPTION A

DATE: 10/03/05

The costs presented below are a part of the total cost for **Alternative 2, Option A**. These data are presented as additional information to assist readers in understanding cut and fill unit cost.

ITEM NO.	DESCRIPTION	EXCAVATION COST	VOLUME (CY)	COST PER CY
1	Ocean Canal	\$4,120,129	1,295,327	\$3.18
2	Hillsboro	\$1,634,556	505,608	\$3.23
3	Cross Canal	\$12,464,032	4,100,081	\$3.04
4	North New River	\$22,026,977	6,778,943	\$3.25
5	L-7 Canal	\$11,482,286	1,641,040	\$7.00
6	S-6 Diversion	\$399,608	200,606	\$1.99
7	STA-2 Supply	\$2,284,940	1,147,058	\$1.99
8	STA- 2 Inflow Canal	\$3,497,867	1,755,958	\$1.99
TOTAL		\$57,910,397	17,424,621	\$3.21
				<i>Average cost/CY</i>

OPERATION AND MAINTENANCE COST

Alternative 2, Option A (2006 cost) **\$9,901,013**

* For total cost per canal see summary of Probable Planning-Level opinion of Capital Cost



A.D.A. Engineering, Inc.
Consulting Engineers & Planners



EAA REGIONAL FEASIBILITY STUDY
South Florida Water Management District
ADA Project No. C110-05-003
PROBABLE PLANNING-LEVEL OPINION OF CAPITAL COST
L-7 CANAL (Alternative 2)

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www.adaengineering.com

DATE: 10/03/05

Construction Cost						
Item No.	Description	UOM	Soft Cost (%)	Cost	Quantity	Total
01050-001	Temporary facilities	mo		\$2,500.00	0.00	\$0.00
01200-001	Rental-Crusher, Incl mob, de-mob and operation	ea		\$40,000.00	0.00	\$0.00
01200-001	Field Vehicles	ea		\$23,750.00	0.00	\$0.00
01250-001	Survey for Stage Monitor Set-up	ls		\$35,000.00	0.00	\$0.00
02060-0450	Site demo, pipe removal, sewer/water, no exc, 48"-6"0	cy		\$1.01	0.00	\$0.00
02070-1090	Equip, dml, 30" vertical turbine pump, motor, complete	ea		\$10,000.00	0.00	\$0.00
02170-0050	Saw cutting, concrete walls, rod reinforced, perim of depth	lf		\$9.46	0.00	\$0.00
02220-001	Remove Water structure	ea		\$50,000.00	0.00	\$0.00
02220-110	Building Demolition	sf		\$25.00	0.00	\$0.00
02230-100	Clearing and Grubbing	Ac		\$1,200.00	652.88	\$783,461.49
02230-100	Light Clearing	Ac		\$600.00	0.00	\$0.00
02230-102	Clear and Grub Levee Area	AC		\$515.00	0.00	\$0.00
02230-200	Herbicide Treatment (for removal of exotic vegetation)	Ac		\$240.00	0.00	\$0.00
02230-300	Tree removal more 600 Tree/Ac	Ac		\$3,650.00	13.06	\$47,660.57
02230-310	Seeding and Mulching and Watering	Ac		\$1,200.00	0.00	\$0.00
02230-311	Seeding and Grassing	Ac		\$2,000.00	0.00	\$0.00
02240-0150	Dewatering, pumping 8 hr, unattended, 8" centrifugal pump	ea		\$238.49	0.00	\$0.00
02240-0160	Dewatering, pumping 8 hr, unattended, add per additional 8"pump	day		\$110.55	0.00	\$0.00
02240-100	Dewatering	cy		\$0.25	0.00	\$0.00
02300-100	Earthwork Construction to supply water to inflow canal	cy		\$4.00	0.00	\$0.00
02305-100	Mobilization/Demo of offices/equipment/personnel	LS		\$250,000.00	0.00	\$0.00
02315-100	Excavation (heavy) Includes Entrance Canal	cy		\$3.50	164,103.96	\$574,363.88
02315-101	Excavation (light) Includes Entrance Canal	cy		\$2.55	131,283.17	\$334,772.09
02315-320	Compact Spoil	cy		\$1.00	722,524.50	\$722,524.50
02315-321	Compact Spoil Mob & Demob	cy		\$5.75	114,872.78	\$660,518.46
02315-416	Drilling and Blasting Canal	cy		\$1.00	574,363.88	\$574,363.88
02315-424	Excavate Existing Spoil	cy		\$1.00	0.00	\$0.00
02315-431	Peat Excavation & Placement to dry	cy		\$2.60	0.00	\$0.00
02315-432	Peat Excavation	cy		\$0.60	328,207.93	\$196,924.76
02315-461	Cap rock and Marl Excavation (Heavy)	cy		\$6.75	574,363.88	\$3,876,956.16
02315-462	Cap rock Excavation	cy		\$2.00	0.00	\$0.00
02315-509	Place Spoil 3passes, Let Dry	cy		\$4.50	114,872.78	\$516,927.49
02315-510	Place Spoil	cy		\$1.00	0.00	\$0.00
02320-0030	Backfill, FE loader, bulk up to 150' haul, no compaction	cy		\$1.40	0.00	\$0.00
02320-0030	Backfill, dozer backfill, bulk, up to 150' haul, no compaction	cy		\$1.00	0.00	\$0.00
02340-0010	Bedding, crushed stone 3/4" to 1/2"	cy		\$16.50	0.00	\$0.00
02340-0010	9" Bedding	cy		\$26.05	0.00	\$0.00
02360-0020	Compaction, sheepsfoot of wobbly wheel roller, 24" lift, select fill	cy		\$0.14	0.00	\$0.00
02360-0030	Compaction, Vibratory plate, 8" lifts, Subgrade	cy		\$1.15	0.00	\$0.00
02360-0031	Compaction, vibratory plate, 24" lifts, subgrade	cy		\$0.31	120,420.75	\$37,330.43
02360-0032	Compaction, vibratory plate, 24" lifts, Backfill	cy		\$0.31	120,420.75	\$37,330.43
02360-0040	Compaction, Vibratory plate, 8" lifts, Bedding	cy		\$1.15	0.00	\$0.00
02370-0050	Drilling and Blasting, bulk drilling and blasting, can vary greatly, avg	cy		\$2.00	0.00	\$0.00
02390-0010	Backhoe Excavation and Load Blasted Material	cy		\$1.56	328,207.93	\$512,004.37
02396-0050	Excavating and Loading Road, FE Loader, whl mtd, 1.5	cy		\$2.25	0.00	\$0.00
02396-0050	Excavate and Spread loose, 300' haul, FE LDR, whl mtd, 1.5 cy cap	cy		\$2.29	0.00	\$0.00
02430-0010	Fill, spread dumped matl, by dozer, no compaction	cy		\$1.03	84,294.53	\$86,823.36
02430-0030	Fill, spread f, from stockpile w/2-1/2 cy FE LDR, 130 HP, 300'haul	cy		\$1.54	0.00	\$0.00
02450-0010	Excavate Trench, cont fty, no sht or dewater, 4'-6' D, 1.5 cy hyd bac	cy		\$1.66	0.00	\$0.00
02460-0010	Hauling, LCY, no loading, 16cy dump truck, 4 mile RT, 1.6 lds/hr	cy		\$2.84	36,126.23	\$102,598.48
02460-0020	Hauling, LCY, no loading, 12 cy Dump Truck, IDM, RT, .60 LDS/hr	cy		\$11.42	0.00	\$0.00
02460-0900	Loading trucks FE LDR, 3cy	cy		\$1.19	36,126.23	\$42,990.21
02470-0020	Soil Stabilization, geotex fabric, woven, HD, 600lb tensile set	cy		\$1.82	1,761,460.40	\$3,205,857.92
02480-0010	Rip-rap, random, machine placed for slope protection	cy		\$40.39	0.00	\$0.00
02500-0020	Bulkheads, reinforced concrete, 12' high	lf		\$289.29	0.00	\$0.00
02560-0990	Drainage, 8' X 8' precast Box culvert, 8' Section	lf		\$278.71	0.00	\$0.00
02630-100	Major Culvert Replacement	ea		\$100,000.00	0.00	\$0.00
02630-101	Minor Culvert Replacement	ea		\$35,000.00	0.00	\$0.00
02630-200	Internal Gated STR-1670 cfs	ea		\$82,000.00	0.00	\$0.00
02630-201	Internal Gated STR-1200 cfs	ea		\$65,000.00	0.00	\$0.00
02720-200	Temporary Construction (Shoo-fly: temporary by-pass)	ft		\$100.00	0.00	\$0.00
02720-200B	New Agr Bridges	EA		\$500,000.00	0.00	\$0.00
02740-310	Approach Reconstruction	ft		\$200.00	0.00	\$0.00
02840-0310	Seeding, mechanical seeding, 215 lb/acre	Ac		\$671.16	38.73	\$25,994.32

Item No.	Description	UOM	Soft Cost (%)	Cost	Quantity	Total
02840-0311	Hydro Seeding	Ac		\$2,130.00	0.00	\$0.00
02840-910	Traffic Control	LS		\$40,000.00	0.00	\$0.00
02850-100	Bridge Extension	sf		\$500.00	0.00	\$0.00
02850-102	Culvert Bridge	ls		\$750,000.00	0.00	\$0.00
02850-210A	Bridge Construction	sf		\$120.00	0.00	\$0.00
03300-001	12' X 22' precast concrete bldg + delivery	ea		\$25,902.13	0.00	\$0.00
05090-0010	Floor grating, alum, up to 300 sf, 1.5"1/8 bar, galvanized	sf		\$14.21	0.00	\$0.00
11010-001	Stilling Wells With Electrical and Telemetry	ea		\$30,000.00	0.00	\$0.00
11010-001	Stilling Well	pr		\$10,750.00	0.00	\$0.00
11040-001	Slide gate position sensor	ea		\$23,000.00	0.00	\$0.00
11040-0290	Hydraulic STR, slide gate, SS, ab & grout 96" X 96"	ea		\$17,875.33	0.00	\$0.00
11040-0380	Slide Gate-Hydraulic STR, stainless Stl , 72" X 72", elec oper	ea		\$38,331.82	0.00	\$0.00
11050-0290	Sluice Gate, Hydraulic STR, HD self cont with actuator, 84" X 60"	ea		\$46,029.05	0.00	\$0.00
15090-0220	Piping, Water dist, conc. Pipe, gasket, 72" dia	ea		\$10.17	0.00	\$0.00
15096-0120	Piping Drainage and Sewage, RCP, class 3, no gaskets, 72" dia	lf		\$152.32	0.00	\$0.00
15230-500	Farm Pump Station Relocation	ea		\$300,000.00	0.00	\$0.00
15230-501	Pump Station	cfs		\$6,000.00	0.00	\$0.00
15230-502	Retrofit Pump Station	cfs		\$500.00	0.00	\$0.00
15230-503	Telemetry for Pump Station	ea		\$500,000.00	0.00	\$0.00
15230-504	Extension of OH Powerline to Pump Station Area	Mi		\$95,000.00	0.00	\$0.00
16195-001	Power Distribution	mi		\$80,000.00	0.00	\$0.00
16195-001	Electrical Control Structure	ea		\$698,000.00	0.00	\$0.00
17150-001	Telemetry	ea		\$10,750.00	0.00	\$0.00
CNL-100	Canal Cross Enlargement	Ac		\$3,500.00	0.00	\$0.00
CNL-110	Canal Enlargement (average)	mi		\$1,122,500.00	0.00	\$0.00
CNL-200	Construction of borrow canal	cy		\$4.25	0.00	\$0.00
CNL-300	Conveyance Canal	Ac		\$3,500.00	0.00	\$0.00
CNL-301	Excavate Canal Extension	cy		\$6.50	0.00	\$0.00
CNL-400	Infill internal drainage canal	cy		\$2.75	0.00	\$0.00
DEG-100	Degrade Farm Roads	cy		\$2.25	0.00	\$0.00
DEG-101	Degrade Interior Agricultural Ditches	mi		\$20,000.00	0.00	\$0.00
DEG-102	Degrading Includes Balance Material Ac	Ac		\$1,000.00	0.00	\$0.00
PLG-01	Plug inflow	cy		\$3.50	0.00	\$0.00
RB104-11	Silt Fence placement& Maintenece	lf		\$5.50	80,338.00	\$441,859.00
SPILL-01	Spillway	cfs		\$1,200.00	0.00	\$0.00
STR 1	Control Structure	ea	Varies		0.00	\$0.00
STR 2	10' X 10' Gated Water Control Structure with Telemetric Control	ea		\$425,000.00	0.00	\$0.00
STR 3	6' X 10' Gated Water Control Inflow Structure	ea		\$475,000.00	0.00	\$0.00
STR 4	8' X 10' Gated Water Control Intermediate Structure	ea		\$375,000.00	0.00	\$0.00
STR 5	8'X8' Gated water control structure	ea		\$340,000.00	0.00	\$0.00
STR 6	9' X 10' gated water control structure	ea		\$80,950.00	0.00	\$0.00
STR 7	Construction of twin Barreled Water Control Structure	ea		\$950,000.00	0.00	\$0.00
STR 8	Precast 72" X 72" Gate Structure	ea		\$40,204.22	0.00	\$0.00
STR-EQ 1	Water Control STR Electrical and Telemetry	ea		\$50,950.00	0.00	\$0.00
USACE0815	Separation Levee	Ac		\$3,500.00	0.00	\$0.00
USACE-100	Construction of perimeter Levee	cy		\$3.50	0.00	\$0.00
USACE-101	Degrade Levee at Inflow Weir	cy		\$1.25	0.00	\$0.00
					Subtotal	\$12,781,261.80

Cont-1	Construction Cost Contingency	LS	30.0%		1.00	\$3,834,378.54
MISCTOOL1	Small Tools	LS	5%		1.00	\$639,063.09
MISCTOOL2	Equipment and Fuel Maintenance	LS	6%		1.00	\$766,875.71

TOTAL \$18,021,579.14

LAND COST						
	Land Acquisitions	Ac		\$6,000.00	0.00	\$0.00
Cont-2	Land Cost Contingency	LS	50.0%		1.00	\$0.00
LANDACQ	Land Acquisitions (appraisals, negotiations, etc..)	LS	2.5%		1.00	\$0.00
						\$0.00

Design Phase						
01107-200	Construction Management	LS	7.5%		1.00	\$1,351,618.44
01107-300	Engineering Planning and Design	LS	10.0%		1.00	\$1,802,157.91
01107-700	Program Management	LS	2.5%		1.00	\$450,539.48
						\$3,604,315.83

Operation and Maintenance						
15230-016	Power Supply to Pump Station	ea		\$2,000,000.00		\$0.00
						\$0.00

GRAND TOTAL \$21,625,894.96



EAA REGIONAL FEASIBILITY STUDY
South Florida Water Management District

ADA Project No. C110-05-003

PROBABLE PLANNING-LEVEL OPINION OF CAPITAL COST

S-6 DIVERSION CANAL (Alternative 2)

DATE: 10/03/05

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Item No.	Description	UOM	Soft Cost (%)	Cost	Quantity	Total
01050-001	Temporary facilities	mo		\$2,500.00	0.00	\$0.00
01200-001	Rental-Crusher, Incl mob, de-mob and operation	ea		\$40,000.00	0.00	\$0.00
01200-001	Field Vehicles	ea		\$23,750.00	0.00	\$0.00
01250-001	Survey for Stage Monitor Set-up	ls		\$35,000.00	0.00	\$0.00
02060-0450	Site demo, pipe removal, sewer/water, no exc, 48"-6"0	cy		\$1.01	0.00	\$0.00
02070-1090	Equip, dml, 30" vertical turbine pump, motor, complete	ea		\$1,144.16	0.00	\$0.00
02170-0050	Saw cutting, concrete walls, rod reinforced, perim of depth	lf		\$9.46	0.00	\$0.00
02220-001	Remove Water structure	ea		\$50,000.00	0.00	\$0.00
02220-110	Building Demolition	sf		\$25.00	0.00	\$0.00
02230-100	Clearing and Grubbing	Ac		\$1,200.00	20.08	\$24,095.21
02230-100	Light Clearing	Ac		\$600.00	0.00	\$0.00
02230-102	Clear and Grub Levee Area	Ac		\$515.00	0.00	\$0.00
02230-200	Herbicide Treatment (for removal of exotic vegetation)	Ac		\$240.00	0.00	\$0.00
02230-300	Tree removal more 600 Tree/Ac	Ac		\$3,650.00	0.40	\$1,465.79
02230-310	Seeding and Mulching and Watering	Ac		\$1,200.00	0.00	\$0.00
02230-311	Seeding and Grassing	Ac		\$2,000.00	0.00	\$0.00
02240-0150	Dewatering, pumping 8 hr, unattended, 8" centrifugal pump	ea		\$238.49	0.00	\$0.00
02240-0160	Dewatering, pumping 8 hr, unattended, add per additional 8"pump	day		\$110.55	0.00	\$0.00
02240-100	Dewatering	cy		\$0.25	0.00	\$0.00
02300-100	Earthwork Construction to supply water to inflow canal	cy		\$4.00	0.00	\$0.00
02305-100	Mobilization/Demo of offices/equipment/personnel	LS		\$250,000.00	0.00	\$0.00
02315-100	Excavation (heavy) Includes Entrance Canal	cy		\$3.50	20,060.64	\$70,212.23
02315-101	Excavation (light) Includes Entrance Canal	cy		\$2.55	40,121.27	\$102,309.25
02315-320	Compact Spoil	cy		\$1.00	0.00	\$0.00
02315-321	Compact Spoil Mob & Demob	cy		\$5.75	0.00	\$0.00
02315-416	Drilling and Blasting Canal	cy		\$1.00	40,121.27	\$40,121.27
02315-424	Excavate Existing Spoil	cy		\$1.00	20,061.00	\$20,061.00
02315-431	Peat Excavation & Placement to dry	cy		\$2.60	0.00	\$0.00
02315-432	Peat Excavation	cy		\$0.60	40,121.27	\$24,072.76
02315-461	Cap rock and Marl Excavation (Heavy)	cy		\$6.75	0.00	\$0.00
02315-462	Cap rock Excavation	cy		\$2.00	40,121.27	\$80,242.55
02315-509	Place Spoil 3passes, Let Dry	cy		\$4.50	0.00	\$0.00
02315-510	Place Spoil	cy		\$1.00	0.00	\$0.00
02320-0030	Backfill, FE loader, bulk up to 150' haul, no compaction	cy		\$1.40	0.00	\$0.00
02320-0030	Backfill, dozer backfill, bulk, up to 150' haul, no compaction	cy		\$1.00	0.00	\$0.00
02340-0010	Bedding, crushed stone 3/4" to 1/2"	cy		\$16.50	0.00	\$0.00
02340-0010	9" Bedding	cy		\$26.05	0.00	\$0.00
02360-0020	Compaction, sheepsfoot of wobbly wheel roller, 24" lift, select fill	cy		\$0.14	0.00	\$0.00
02360-0030	Compaction, Vibratory plate, 8" lifts, Subgrade	cy		\$1.15	0.00	\$0.00
02360-0031	Compaction, vibratory plate, 24" lifts, subgrade	cy		\$0.31	0.00	\$0.00
02360-0032	Compaction, vibratory plate, 24" lifts, Backfill	cy		\$0.31	0.00	\$0.00
02360-0040	Compaction, Vibratory plate, 8" lifts, Bedding	cy		\$1.15	0.00	\$0.00
02370-0050	Drilling and Blasting, bulk drilling and blasting, can vary greatly, avg	cy		\$2.00	0.00	\$0.00
02390-0010	Backhoe Excavation and Load Blasted Material	cy		\$1.56	40,121.27	\$62,589.19
02396-0050	Excavating and Loading Road, FE Loader, whl mtd, 1.5	cy		\$2.25	0.00	\$0.00
02396-0050	Excavate and Spread loose, 300' haul, FE LDR, whl mtd, 1.5 cy cap	cy		\$2.29	0.00	\$0.00
02430-0010	Fill, spread dumped matl, by dozer, no compaction	cy		\$1.03	0.00	\$0.00
02430-0030	Fill, spread f, from stockpile w/2-1/2 cy FE LDR, 130 HP, 300'haul	cy		\$1.54	0.00	\$0.00
02450-0010	Excavate Trench, cont fig, no sht or dewater, 4'-6" D, 1.5 cy hyd bac	cy		\$1.66	0.00	\$0.00
02460-0010	Hauling, LCY, no loading, 16cy dump truck, 4 mile RT, 1.6 lds/hr	cy		\$2.84	0.00	\$0.00
02460-0020	Hauling, LCY, no loading, 12 cy Dump Truck, IDM, RT, .60 LDS/hr	cy		\$11.42	0.00	\$0.00
02460-0900	Loading trucks FE LDR, 3cy	cy		\$1.19	0.00	\$0.00
02470-0020	Soil Stabilization, geotex fabric, woven, HD, 600lb tensile set	cy		\$1.82	0.00	\$0.00
02480-0010	Rip-rap, random, machine placed for slope protection	cy		\$40.39	0.00	\$0.00
02500-0020	Bulkheads, reinforced concrete, 12' high	lf		\$289.29	0.00	\$0.00
02560-0990	Drainage, 8' X 8' precast Box culvert, 8' Section	lf		\$278.71	0.00	\$0.00
02630-100	Major Culvert Replacement	ea		\$100,000.00	0.00	\$0.00
02630-101	Minor Culvert Replacement	ea		\$35,000.00	0.00	\$0.00
02630-200	Internal Gated STR-1670 cfs	ea		\$82,000.00	0.00	\$0.00
02630-201	Internal Gated STR-1200 cfs	ea		\$65,000.00	0.00	\$0.00
02720-200	Temporary Construction (Shoo-fly: temporary by-pass)	ft		\$100.00	0.00	\$0.00
02720-200B	New Agr Bridges	EA		\$500,000.00	0.00	\$0.00
02740-310	Approach Reconstruction	ft		\$200.00	0.00	\$0.00
02840-0310	Seeding, mechanical seeding, 215 lb/acre	Ac		\$671.16	0.00	\$0.00
02840-0311	Hydro Seeding	Ac		\$2,130.00	0.00	\$0.00

Item No.	Description	UOM	Soft Cost (%)	Cost	Quantity	Total
02840-910	Traffic Control	LS		\$40,000.00	0.00	\$0.00
02850-100	Bridge Extension	sf		\$500.00	0.00	\$0.00
02850-102	Culvert Bridge	ls		\$750,000.00	0.00	\$0.00
02850-210A	Bridge Construction	sf		\$120.00	0.00	\$0.00
03300-001	12' X 22' precast concrete bldg + delivery	ea		\$25,902.13	0.00	\$0.00
05090-0010	Floor grating, alum, up to 300 sf, 1.5"1/8 bar, galvanized	sf		\$14.21	0.00	\$0.00
11010-001	Stilling Wells With Electrical and Telemetry	ea		\$30,000.00	0.00	\$0.00
11010-001	Stilling Well	pr		\$10,750.00	0.00	\$0.00
11040-001	Slide gate position sensor	ea		\$23,000.00	0.00	\$0.00
11040-0290	Hydraulic STR, slide gate, SS, ab & grout 96" X 96"	ea		\$17,875.33	0.00	\$0.00
11040-0380	Slide Gate-Hydraulic STR, stainless Stl , 72" X 72", elec oper	ea		\$38,331.82	0.00	\$0.00
11050-0290	Sluice Gate, Hydraulic STR, HD self cont with actuator, 84" X 60"	ea		\$46,029.05	0.00	\$0.00
15090-0220	Piping, Water dist, conc. Pipe, gasket, 72" dia	ea		\$10.17	0.00	\$0.00
15096-0120	Piping Drainage and Sewage, RCP, class 3, no gaskets, 72" dia	lf		\$152.32	0.00	\$0.00
15230-500	Farm Pump Station Relocation	ea		\$300,000.00	0.00	\$0.00
15230-501	Pump Station	cfs		\$6,000.00	0.00	\$0.00
15230-502	Retrofit Pump Station	cfs		\$500.00	0.00	\$0.00
15230-503	Telemetry for Pump Station	ea		\$500,000.00	0.00	\$0.00
15230-504	Extension of OH Powerline to Pump Station Area	Mi		\$95,000.00	0.00	\$0.00
16195-001	Power Distribution	mi		\$80,000.00	0.00	\$0.00
16195-001	Electrical Control Structure	ea		\$698,000.00	0.00	\$0.00
17150-001	Telemetry	ea		\$10,750.00	0.00	\$0.00
CNL-100	Canal Cross Enlargement	Ac		\$3,500.00	0.00	\$0.00
CNL-110	Canal Enlargement (average)	mi		\$1,122,500.00	0.00	\$0.00
CNL-200	Construction of borrow canal	cy		\$4.25	0.00	\$0.00
CNL-300	Conveyance Canal	Ac		\$3,500.00	0.00	\$0.00
CNL-301	Excavate Canal Extension	cy		\$6.50	0.00	\$0.00
CNL-400	Infill internal drainage canal	cy		\$2.75	0.00	\$0.00
DEG-100	Degrade Farm Roads	cy		\$2.25	0.00	\$0.00
DEG-101	Degrade Interior Agricultural Ditches	mi		\$20,000.00	0.00	\$0.00
DEG-102	Degrading Includes Balance Material Ac	Ac		\$1,000.00	0.00	\$0.00
PLG-01	Plug inflow	cy		\$3.50	0.00	\$0.00
RB104-11	Silt Fence placement& Maintenece	lf		\$5.50	0.00	\$0.00
SPILL-01	Spillway	cfs		\$1,200.00	0.00	\$0.00
STR 1	Control Structure	ea	Varies		0.00	\$0.00
STR 2	10' X 10' Gated Water Control Structure with Telemetric Control	ea		\$425,000.00	0.00	\$0.00
STR 3	6' X 10' Gated Water Control Inflow Structure	ea		\$475,000.00	0.00	\$0.00
STR 4	8' X 10' Gated Water Control Intermediate Structure	ea		\$375,000.00	0.00	\$0.00
STR 5	8'X8' Gated water control structure	ea		\$340,000.00	0.00	\$0.00
STR 6	9' X 10' gated water control structure	ea		\$80,950.00	0.00	\$0.00
STR 7	Construction of twin Barreled Water Control Structure	ea		\$950,000.00	0.00	\$0.00
STR 8	Precast 72" X 72" Gate Structure	ea		\$40,204.22	0.00	\$0.00
STR-EQ 1	Water Control STR Electrical and Telemetry	ea		\$50,950.00	0.00	\$0.00
USACE0815	Separation Levee	Ac		\$3,500.00	0.00	\$0.00
USACE-100	Construction of perimeter Levee	cy		\$3.50	0.00	\$0.00
USACE-101	Degrade Levee at Inflow Weir	cy		\$1.25	0.00	\$0.00
Subtotal						\$425,169.26
Cont-1	Construction Cost Contingency	LS	30.0%		1.00	\$127,550.78
MISCTOOL1	Small Tools	LS	5%		1.00	\$21,258.46
MISCTOOL2	Equipment and Fuel Maintenance	LS	6%		1.00	\$25,510.16
TOTAL						\$599,488.66
LAND COST						
	Land Acquisitions	Ac		\$6,000.00	0.00	\$0.00
Cont-2	Land Cost Contingency	LS	50.0%		1.00	\$0.00
LANDACQ	Land Acquisitions (appraisals, negotiations, etc..)	LS	2.5%		1.00	\$0.00
						\$0.00
Design Phase						
01107-200	Construction Management	LS	7.5%		1.00	\$44,961.65
01107-300	Engineering Planning and Design	LS	10.0%		1.00	\$59,948.87
01107-700	Program Management	LS	2.5%		1.00	\$14,987.22
						\$119,897.73
Operation and Maintenance						
15230-016	Power Supply to Pump Station	ea		\$2,000,000.00		\$0.00
						\$0.00
GRAND TOTAL						\$719,386.39



A.D.A. Engineering, Inc.
Consulting Engineers & Planners



EAA REGIONAL FEASIBILITY STUDY
South Florida Water Management District
ADA Project No. C110-05-003
PROBABLE PLANNING-LEVEL OPINION OF CAPITAL COST
STA-2 SUPPLY (Alternative 2)

11401 SW 40th Street, Suite 470
Miami, FL 33165
Phone: (305)-551-4608
Fax: (305)-551-8977

www.adaengineering.com

DATE: 10/03/05

Item No.	Description	UOM	Soft Cost (%)	Cost	Quantity	Total
01050-001	Temporary facilities	mo		\$2,500.00	0.00	\$0.00
01200-001	Rental-Crusher, Incl mob, de-mob and operation	ea		\$40,000.00	0.00	\$0.00
01200-001	Field Vehicles	ea		\$23,750.00	0.00	\$0.00
01250-001	Survey for Stage Monitor Set-up	ls		\$35,000.00	0.00	\$0.00
02060-0450	Site demo, pipe removal, sewer/water, no exc, 48"-6"0	cy		\$1.01	0.00	\$0.00
02070-1090	Equip, dml, 30" vertical turbine pump, motor, complete	ea		\$1,144.16	0.00	\$0.00
02170-0050	Saw cutting, concrete walls, rod reinforced, perim of depth	lf		\$9.46	0.00	\$0.00
02220-001	Remove Water structure	ea		\$50,000.00	0.00	\$0.00
02220-110	Building Demolition	sf		\$25.00	0.00	\$0.00
02230-100	Clearing and Grubbing	Ac		\$1,200.00	118.70	\$142,437.02
02230-100	Light Clearing	Ac		\$600.00	0.00	\$0.00
02230-102	Clear and Grub Levee Area	Ac		\$515.00	0.00	\$0.00
02230-200	Herbicide Treatment (for removal of exotic vegetation)	Ac		\$240.00	0.00	\$0.00
02230-300	Tree removal more 600 Tree/Ac	Ac		\$3,650.00	2.37	\$8,664.92
02230-310	Seeding and Mulching and Watering	Ac		\$1,200.00	0.00	\$0.00
02230-311	Seeding and Grassing	Ac		\$2,000.00	0.00	\$0.00
02240-0150	Dewatering, pumping 8 hr, unattended, 8" centrifugal pump	ea		\$238.49	0.00	\$0.00
02240-0160	Dewatering, pumping 8 hr, unattended, add per additional 8"pump	day		\$110.55	0.00	\$0.00
02240-100	Dewatering	cy		\$0.25	0.00	\$0.00
02300-100	Earthwork Construction to supply water to inflow canal	cy		\$4.00	0.00	\$0.00
02305-100	Mobilization/Demo of offices/equipment/personnel	LS		\$250,000.00	0.00	\$0.00
02315-100	Excavation (heavy) Includes Entrance Canal	cy		\$3.50	114,705.81	\$401,470.33
02315-101	Excavation (light) Includes Entrance Canal	cy		\$2.55	229,411.62	\$584,999.62
02315-320	Compact Spoil	cy		\$1.00	0.00	\$0.00
02315-321	Compact Spoil Mob & Demob	cy		\$5.75	0.00	\$0.00
02315-416	Drilling and Blasting Canal	cy		\$1.00	229,411.62	\$229,411.62
02315-424	Excavate Existing Spoil	cy		\$1.00	114,705.81	\$114,705.81
02315-431	Peat Excavation & Placement to dry	cy		\$2.60	0.00	\$0.00
02315-432	Peat Excavation	cy		\$0.60	229,411.62	\$137,646.97
02315-461	Cap rock and Marl Excavation (Heavy)	cy		\$6.75	0.00	\$0.00
02315-462	Cap rock Excavation	cy		\$2.00	229,411.62	\$458,823.23
02315-509	Place Spoil 3passes, Let Dry	cy		\$4.50	0.00	\$0.00
02315-510	Place Spoil	cy		\$1.00	0.00	\$0.00
02320-0030	Backfill, FE loader, bulk up to 150' haul, no compaction	cy		\$1.40	0.00	\$0.00
02320-0030	Backfill, dozer backfill, bulk, up to 150' haul, no compaction	cy		\$1.00	0.00	\$0.00
02340-0010	Bedding, crushed stone 3/4" to 1/2"	cy		\$16.50	0.00	\$0.00
02340-0010	9" Bedding	cy		\$26.05	0.00	\$0.00
02360-0020	Compaction, sheepsfoot of wobbly wheel roller, 24" lift, select fill	cy		\$0.14	0.00	\$0.00
02360-0030	Compaction, Vibratory plate, 8" lifts, Subgrade	cy		\$1.15	0.00	\$0.00
02360-0031	Compaction, vibratory plate, 24" lifts, subgrade	cy		\$0.31	0.00	\$0.00
02360-0032	Compaction, vibratory plate, 24" lifts, Backfill	cy		\$0.31	0.00	\$0.00
02360-0040	Compaction, Vibratory plate, 8" lifts, Bedding	cy		\$1.15	0.00	\$0.00
02370-0050	Drilling and Blasting, bulk drilling and blasting, can vary greatly, avg	cy		\$2.00	0.00	\$0.00
02390-0010	Backhoe Excavation and Load Blasted Material	cy		\$1.56	229,411.62	\$357,882.12
02396-0050	Excavating and Loading Road, FE Loader, whl mtd, 1.5	cy		\$2.25	0.00	\$0.00
02396-0050	Excavate and Spread loose, 300' haul, FE LDR, whl mtd, 1.5 cy cap	cy		\$2.29	0.00	\$0.00
02430-0010	Fill, spread dumped matl, by dozer, no compaction	cy		\$1.03	0.00	\$0.00
02430-0030	Fill, spread f, from stockpile w/2-1/2 cy FE LDR, 130 HP, 300'haul	cy		\$1.54	0.00	\$0.00
02450-0010	Excavate Trench, cont fty, no sht or dewater, 4'-6' D, 1.5 cy hyd bac	cy		\$1.66	0.00	\$0.00
02460-0010	Hauling, LCY, no loading, 16cy dump truck, 4 mile RT, 1.6 lds/hr	cy		\$2.84	0.00	\$0.00
02460-0020	Hauling, LCY, no loading, 12 cy Dump Truck, IDM, RT, .60 LDS/hr	cy		\$11.42	0.00	\$0.00
02460-0900	Loading trucks FE LDR, 3cy	cy		\$1.19	0.00	\$0.00
02470-0020	Soil Stabilization, geotex fabric, woven, HD, 600lb tensile set	cy		\$1.82	0.00	\$0.00
02480-0010	Rip-rap, random, machine placed for slope protection	cy		\$40.39	0.00	\$0.00
02500-0020	Bulkheads, reinforced concrete, 12' high	lf		\$289.29	0.00	\$0.00
02560-0990	Drainage, 8' X 8' precast Box culvert, 8' Section	lf		\$278.71	0.00	\$0.00
02630-100	Major Culvert Replacement	ea		\$100,000.00	0.00	\$0.00
02630-101	Minor Culvert Replacement	ea		\$35,000.00	0.00	\$0.00
02630-200	Internal Gated STR-1670 cfs	ea		\$82,000.00	0.00	\$0.00
02630-201	Internal Gated STR-1200 cfs	ea		\$65,000.00	0.00	\$0.00
02720-200	Temporary Construction (Shoo-fly: temporary by-pass)	ft		\$100.00	0.00	\$0.00
02720-200B	New Agr Bridges	EA		\$500,000.00	0.00	\$0.00
02740-310	Approach Reconstruction	ft		\$200.00	0.00	\$0.00
02840-0310	Seeding, mechanical seeding, 215 lb/acre	Ac		\$671.16	0.00	\$0.00

Item No.	Description	UOM	Soft Cost (%)	Cost	Quantity	Total
02840-0311	Hydro Seeding	Ac		\$2,130.00	0.00	\$0.00
02840-910	Traffic Control	LS		\$40,000.00	0.00	\$0.00
02850-100	Bridge Extension	sf		\$500.00	0.00	\$0.00
02850-102	Culvert Bridge	ls		\$750,000.00	0.00	\$0.00
02850-210A	Bridge Construction	sf		\$120.00	0.00	\$0.00
03300-001	12' X 22' precast concrete bldg + delivery	ea		\$25,902.13	0.00	\$0.00
05090-0010	Floor grating, alum, up to 300 sf, 1.5"1/8 bar, galvanized	sf		\$14.21	0.00	\$0.00
11010-001	Stilling Wells With Electrical and Telemetry	ea		\$30,000.00	0.00	\$0.00
11010-001	Stilling Well	pr		\$10,750.00	0.00	\$0.00
11040-001	Slide gate position sensor	ea		\$23,000.00	0.00	\$0.00
11040-0290	Hydraulic STR, slide gate, SS, ab & grout 96" X 96"	ea		\$17,875.33	0.00	\$0.00
11040-0380	Slide Gate-Hydraulic STR, stainless Stl , 72" X 72", elec oper	ea		\$38,331.82	0.00	\$0.00
11050-0290	Sluice Gate, Hydraulic STR, HD self cont with actuator, 84" X 60"	ea		\$46,029.05	0.00	\$0.00
15090-0220	Piping, Water dist, conc. Pipe, gasket, 72" dia	ea		\$10.17	0.00	\$0.00
15096-0120	Piping Drainage and Sewage, RCP, class 3, no gaskets, 72" dia	lf		\$152.32	0.00	\$0.00
15230-500	Farm Pump Station Relocation	ea		\$300,000.00	0.00	\$0.00
15230-501	Pump Station	cfs		\$6,000.00	0.00	\$0.00
15230-502	Retrofit Pump Station	cfs		\$500.00	0.00	\$0.00
15230-503	Telemetry for Pump Station	ea		\$500,000.00	0.00	\$0.00
15230-504	Extension of OH Powerline to Pump Station Area	Mi		\$95,000.00	0.00	\$0.00
16195-001	Power Distribution	mi		\$80,000.00	0.00	\$0.00
16195-001	Electrical Control Structure	ea		\$698,000.00	0.00	\$0.00
17150-001	Telemetry	ea		\$10,750.00	0.00	\$0.00
CNL-100	Canal Cross Enlargement	Ac		\$3,500.00	0.00	\$0.00
CNL-110	Canal Enlargement (average)	mi		\$1,122,500.00	0.00	\$0.00
CNL-200	Construction of borrow canal	cy		\$4.25	0.00	\$0.00
CNL-300	Conveyance Canal	Ac		\$3,500.00	0.00	\$0.00
CNL-301	Excavate Canal Extension	cy		\$6.50	0.00	\$0.00
CNL-400	Infill internal drainage canal	cy		\$2.75	0.00	\$0.00
DEG-100	Degrade Farm Roads	cy		\$2.25	0.00	\$0.00
DEG-101	Degrade Interior Agricultural Ditches	mi		\$20,000.00	0.00	\$0.00
DEG-102	Degrading Includes Balance Material Ac	Ac		\$1,000.00	0.00	\$0.00
PLG-01	Plug inflow	cy		\$3.50	0.00	\$0.00
RB104-11	Silt Fence placement& Maintenace	lf		\$5.50	0.00	\$0.00
SPILL-01	Spillway	cfs		\$1,200.00	0.00	\$0.00
STR 1	Control Structure	ea	Varies		0.00	\$0.00
STR 2	10' X 10' Gated Water Control Structure with Telemetric Control	ea		\$425,000.00	0.00	\$0.00
STR 3	6' X 10' Gated Water Control Inflow Structure	ea		\$475,000.00	0.00	\$0.00
STR 4	8' X 10' Gated Water Control Intermediate Structure	ea		\$375,000.00	0.00	\$0.00
STR 5	8'X8' Gated water control structure	ea		\$340,000.00	0.00	\$0.00
STR 6	9' X 10' gated water control structure	ea		\$80,950.00	0.00	\$0.00
STR 7	Construction of twin Barreled Water Control Structure	ea		\$950,000.00	0.00	\$0.00
STR 8	Precast 72" X 72" Gate Structure	ea		\$40,204.22	0.00	\$0.00
STR-EQ 1	Water Control STR Electrical and Telemetry	ea		\$50,950.00	0.00	\$0.00
USACE0815	Separation Levee	Ac		\$3,500.00	0.00	\$0.00
USACE-100	Construction of perimeter Levee	cy		\$3.50	0.00	\$0.00
USACE-101	Degrade Levee at Inflow Weir	cy		\$1.25	0.00	\$0.00
					Subtotal	\$2,436,041.63

Cont-1	Construction Cost Contingency	LS	30.0%		1.00	\$730,812.49
MISCTOOL1	Small Tools	LS	5%		1.00	\$121,802.08
MISCTOOL2	Equipment and Fuel Maintenance	LS	6%		1.00	\$146,162.50

TOTAL \$3,434,818.70

LAND COST						
	Land Acquisitions	Ac		\$6,000.00	81.60	\$489,627.27
Cont-2	Land Cost Contingency	LS	50.0%		1.00	\$244,813.64
LANDACQ	Land Acquisitions (appraisals, negotiations, etc..)	LS	2.5%		1.00	\$18,361.02
						\$752,801.93

Design Phase						
01107-200	Construction Management	LS	7.5%		1.00	\$257,611.40
01107-300	Engineering Planning and Design	LS	10.0%		1.00	\$343,481.87
01107-700	Program Management	LS	2.5%		1.00	\$85,870.47
						\$686,963.74

Operation and Maintenance						
15230-016	Power Supply to Pump Station	ea		\$2,000,000.00		\$0.00
						\$0.00

GRAND TOTAL \$4,874,584.38



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EAA REGIONAL FEASIBILITY STUDY
South Florida Water Management District
ADA Project No. C110-05-003
PROBABLE PLANNING-LEVEL OPINION OF CAPITAL COST
STA-2 INFLOW (Alternative 2)

DATE: 10/03/05

Item No.	Description	UOM	Soft Cost (%)	Cost	Quantity	Total
01050-001	Temporary facilities	mo		\$2,500.00	0.00	\$0.00
01200-001	Rental-Crusher, Incl mob, de-mob and operation	ea		\$40,000.00	0.00	\$0.00
01200-001	Field Vehicles	ea		\$23,750.00	0.00	\$0.00
01250-001	Survey for Stage Monitor Set-up	ls		\$35,000.00	0.00	\$0.00
02060-0450	Site demo, pipe removal, sewer/water, no exc, 48"-6"0	cy		\$1.01	0.00	\$0.00
02070-1090	Equip, dml, 30" vertical turbine pump, motor, complete	ea		\$1,144.16	0.00	\$0.00
02170-0050	Saw cutting, concrete walls, rod reinforced, perim of depth	lf		\$9.46	0.00	\$0.00
02220-001	Remove Water structure	ea		\$50,000.00	0.00	\$0.00
02220-110	Building Demolition	sf		\$25.00	0.00	\$0.00
02230-100	Clearing and Grubbing	Ac		\$1,200.00	184.81	\$221,774.93
02230-100	Light Clearing	Ac		\$600.00	0.00	\$0.00
02230-102	Clear and Grub Levee Area	AC		\$515.00	0.00	\$0.00
02230-200	Herbicide Treatment (for removal of exotic vegetation)	Ac		\$240.00	0.00	\$0.00
02230-300	Tree removal more 600 Tree/Ac	Ac		\$3,650.00	3.70	\$13,491.31
02230-310	Seeding and Mulching and Watering	Ac		\$1,200.00	0.00	\$0.00
02230-311	Seeding and Grassing	Ac		\$2,000.00	0.00	\$0.00
02240-0150	Dewatering, pumping 8 hr, unattended, 8" centrifugal pump	ea		\$238.49	0.00	\$0.00
02240-0160	Dewatering, pumping 8 hr, unattended, add per additional 8"pump	day		\$110.55	0.00	\$0.00
02240-100	Dewatering	cy		\$0.25	0.00	\$0.00
02300-100	Earthwork Construction to supply water to inflow canal	cy		\$4.00	0.00	\$0.00
02305-100	Mobilization/Demo of offices/equipment/personnel	LS		\$250,000.00	0.00	\$0.00
02315-100	Excavation (heavy) Includes Entrance Canal	cy		\$3.50	175,595.75	\$614,585.14
02315-101	Excavation (light) Includes Entrance Canal	cy		\$2.55	351,191.51	\$895,538.34
02315-320	Compact Spoil	cy		\$1.00	0.00	\$0.00
02315-321	Compact Spoil Mob & Demob	cy		\$5.75	0.00	\$0.00
02315-416	Drilling and Blasting Canal	cy		\$1.00	351,191.51	\$351,191.51
02315-424	Excavate Existing Spoil	cy		\$1.00	175,595.75	\$175,595.75
02315-431	Peat Excavation & Placement to dry	cy		\$2.60	0.00	\$0.00
02315-432	Peat Excavation	cy		\$0.60	351,191.51	\$210,714.90
02315-461	Cap rock and Marl Excavation (Heavy)	cy		\$6.75	0.00	\$0.00
02315-462	Cap rock Excavation	cy		\$2.00	351,191.51	\$702,383.01
02315-509	Place Spoil 3passes, Let Dry	cy		\$4.50	0.00	\$0.00
02315-510	Place Spoil	cy		\$1.00	0.00	\$0.00
02320-0030	Backfill, FE loader, bulk up to 150' haul, no compaction	cy		\$1.40	0.00	\$0.00
02320-0030	Backfill, dozer backfill, bulk, up to 150' haul, no compaction	cy		\$1.00	0.00	\$0.00
02340-0010	Bedding, crushed stone 3/4" to 1/2"	cy		\$16.50	0.00	\$0.00
02340-0010	9" Bedding	cy		\$26.05	0.00	\$0.00
02360-0020	Compaction, sheepsfoot of wobbly wheel roller, 24" lift, select fill	cy		\$0.14	0.00	\$0.00
02360-0030	Compaction, Vibratory plate, 8" lifts, Subgrade	cy		\$1.15	0.00	\$0.00
02360-0031	Compaction, vibratory plate, 24" lifts, subgrade	cy		\$0.31	0.00	\$0.00
02360-0032	Compaction, vibratory plate, 24" lifts, Backfill	cy		\$0.31	0.00	\$0.00
02360-0040	Compaction, Vibratory plate, 8" lifts, Bedding	cy		\$1.15	0.00	\$0.00
02370-0050	Drilling and Blasting, bulk drilling and blasting, can vary greatly, avg	cy		\$2.00	0.00	\$0.00
02390-0010	Backhoe Excavation and Load Blasted Material	cy		\$1.56	351,191.51	\$547,858.75
02396-0050	Excavating and Loading Road, FE Loader, whl mtd, 1.5	cy		\$2.25	0.00	\$0.00
02396-0050	Excavate and Spread loose, 300' haul, FE LDR, whl mtd, 1.5 cy cap	cy		\$2.29	0.00	\$0.00
02430-0010	Fill, spread dumped matl, by dozer, no compaction	cy		\$1.03	0.00	\$0.00
02430-0030	Fill, spread f, from stockpile w/2-1/2 cy FE LDR, 130 HP, 300'haul	cy		\$1.54	0.00	\$0.00
02450-0010	Excavate Trench, cont fig, no sht or dewater, 4'-6" D, 1.5 cy hyd bac	cy		\$1.66	0.00	\$0.00
02460-0010	Hauling, LCY, no loading, 16cy dump truck, 4 mile RT, 1.6 lds/hr	cy		\$2.84	0.00	\$0.00
02460-0020	Hauling, LCY, no loading, 12 cy Dump Truck, IDM, RT, .60 LDS/hr	cy		\$11.42	0.00	\$0.00
02460-0900	Loading trucks FE LDR, 3cy	cy		\$1.19	0.00	\$0.00
02470-0020	Soil Stabilization, geotex fabric, woven, HD, 600lb tensile set	cy		\$1.82	0.00	\$0.00
02480-0010	Rip-rap, random, machine placed for slope protection	cy		\$40.39	0.00	\$0.00
02500-0020	Bulkheads, reinforced concrete, 12' high	lf		\$289.29	0.00	\$0.00
02560-0990	Drainage, 8' X 8' precast Box culvert, 8' Section	lf		\$278.71	0.00	\$0.00
02630-100	Major Culvert Replacement	ea		\$100,000.00	0.00	\$0.00
02630-101	Minor Culvert Replacement	ea		\$35,000.00	0.00	\$0.00
02630-200	Internal Gated STR-1670 cfs	ea		\$82,000.00	0.00	\$0.00
02630-201	Internal Gated STR-1200 cfs	ea		\$65,000.00	0.00	\$0.00
02720-200	Temporary Construction (Shoo-fly: temporary by-pass)	ft		\$100.00	0.00	\$0.00
02720-200B	New Agr Bridges	EA		\$500,000.00	0.00	\$0.00
02740-310	Approach Reconstruction	ft		\$200.00	0.00	\$0.00
02840-0310	Seeding, mechanical seeding, 215 lb/acre	Ac		\$671.16	0.00	\$0.00
02840-0311	Hydro Seeding	Ac		\$2,130.00	0.00	\$0.00

Item No.	Description	UOM	Soft Cost (%)	Cost	Quantity	Total
02840-910	Traffic Control	LS		\$40,000.00	0.00	\$0.00
02850-100	Bridge Extension	sf		\$500.00	0.00	\$0.00
02850-102	Culvert Bridge	ls		\$750,000.00	0.00	\$0.00
02850-210A	Bridge Construction	sf		\$120.00	0.00	\$0.00
03300-001	12' X 22' precast concrete bldg + delivery	ea		\$25,902.13	0.00	\$0.00
05090-0010	Floor grating, alum, up to 300 sf, 1.5"1/8 bar, galvanized	sf		\$14.21	0.00	\$0.00
11010-001	Stilling Wells With Electrical and Telemetry	ea		\$30,000.00	0.00	\$0.00
11010-001	Stilling Well	pr		\$10,750.00	0.00	\$0.00
11040-001	Slide gate position sensor	ea		\$23,000.00	0.00	\$0.00
11040-0290	Hydraulic STR, slide gate, SS, ab & grout 96" X 96"	ea		\$17,875.33	0.00	\$0.00
11040-0380	Slide Gate-Hydraulic STR, stainless Stl , 72" X 72", elec oper	ea		\$38,331.82	0.00	\$0.00
11050-0290	Sluice Gate, Hydraulic STR, HD self cont with actuator, 84" X 60"	ea		\$46,029.05	0.00	\$0.00
15090-0220	Piping, Water dist, conc. Pipe, gasket, 72" dia	ea		\$10.17	0.00	\$0.00
15096-0120	Piping Drainage and Sewage, RCP, class 3, no gaskets, 72" dia	lf		\$152.32	0.00	\$0.00
15230-500	Farm Pump Station Relocation	ea		\$300,000.00	0.00	\$0.00
15230-501	Pump Station	cfs		\$6,000.00	0.00	\$0.00
15230-502	Retrofit Pump Station	cfs		\$500.00	0.00	\$0.00
15230-503	Telemetry for Pump Station	ea		\$500,000.00	0.00	\$0.00
15230-504	Extension of OH Powerline to Pump Station Area	Mi		\$95,000.00	0.00	\$0.00
16195-001	Power Distribution	mi		\$80,000.00	0.00	\$0.00
16195-001	Electrical Control Structure	ea		\$698,000.00	0.00	\$0.00
17150-001	Telemetry	ea		\$10,750.00	0.00	\$0.00
CNL-100	Canal Cross Enlargement	Ac		\$3,500.00	0.00	\$0.00
CNL-110	Canal Enlargement (average)	mi		\$1,122,500.00	0.00	\$0.00
CNL-200	Construction of borrow canal	cy		\$4.25	0.00	\$0.00
CNL-300	Conveyance Canal	Ac		\$3,500.00	0.00	\$0.00
CNL-301	Excavate Canal Extension	cy		\$6.50	0.00	\$0.00
CNL-400	Infill internal drainage canal	cy		\$2.75	0.00	\$0.00
DEG-100	Degrade Farm Roads	cy		\$2.25	0.00	\$0.00
DEG-101	Degrade Interior Agricultural Ditches	mi		\$20,000.00	0.00	\$0.00
DEG-102	Degrading Includes Balance Material Ac	Ac		\$1,000.00	0.00	\$0.00
PLG-01	Plug inflow	cy		\$3.50	0.00	\$0.00
RB104-11	Silt Fence placement& Maintenece	lf		\$5.50	0.00	\$0.00
SPILL-01	Spillway	cfs		\$1,200.00	0.00	\$0.00
STR 1	Control Structure	ea	Varies		0.00	\$0.00
STR 2	10' X 10' Gated Water Control Structure with Telemetric Control	ea		\$425,000.00	0.00	\$0.00
STR 3	6' X 10' Gated Water Control Inflow Structure	ea		\$475,000.00	0.00	\$0.00
STR 4	8' X 10' Gated Water Control Intermediate Structure	ea		\$375,000.00	0.00	\$0.00
STR 5	8'X8' Gated water control structure	ea		\$340,000.00	0.00	\$0.00
STR 6	9' X 10' gated water control structure	ea		\$80,950.00	0.00	\$0.00
STR 7	Construction of twin Barreled Water Control Structure	ea		\$950,000.00	0.00	\$0.00
STR 8	Precast 72" X 72" Gate Structure	ea		\$40,204.22	0.00	\$0.00
STR-EQ 1	Water Control STR Electrical and Telemetry	ea		\$50,950.00	0.00	\$0.00
USACE0815	Separation Levee	Ac		\$3,500.00	0.00	\$0.00
USACE-100	Construction of perimeter Levee	cy		\$3.50	0.00	\$0.00
USACE-101	Degrade Levee at Inflow Weir	cy		\$1.25	0.00	\$0.00
Subtotal						\$3,733,133.65

Cont-1	Construction Cost Contingency	LS	30.0%		1.00	\$1,119,940.10
MISCTOOL1	Small Tools	LS	5%		1.00	\$186,656.68
MISCTOOL2	Equipment and Fuel Maintenance	LS	6%		1.00	\$223,988.02

TOTAL \$5,263,718.45

LAND COST						
	Land Acquisitions	Ac		\$6,000.00	77.30	\$463,787.88
Cont-2	Land Cost Contingency	LS	50.0%		1.00	\$231,893.94
LANDACQ	Land Acquisitions (appraisals, negotiations, etc..)	LS	2.5%		1.00	\$17,392.05
						\$713,073.86

Design Phase						
01107-200	Construction Management	LS	7.5%		1.00	\$394,778.88
01107-300	Engineering Planning and Design	LS	10.0%		1.00	\$526,371.85
01107-700	Program Management	LS	2.5%		1.00	\$131,592.96
						\$1,052,743.69

Operation and Maintenance						
15230-016	Power Supply to Pump Station	ea		\$2,000,000.00		\$0.00
						\$0.00

GRAND TOTAL \$7,029,536.01

EAA Regional Feasibility Study
South Florida Water Management District
ADA Project #: C110-05-003

Alternative 2A - Operations & Maintenance Cash Flow Analysis				
	Quantity	Cost(\$)	Contingency(%)	Total (\$)/yr
North New River				
Vegetation Maintenance of Canals (per Ac)	232.1	\$33.77	30%	\$10,189.55
Subtotal				\$10,189.55
Ocean Canal				
Vegetation Maintenance of Canals (per Ac)	37.8	\$33.77	30%	\$1,657.68
Subtotal				\$1,657.68
Cross Canal				
Vegetation Maintenance of Canals (per Ac)	53.7	\$33.77	30%	\$2,356.25
Subtotal				\$2,356.25
Hillsboro Canal				
Vegetation Maintenance of Canals (per Ac)	13.2	\$33.77	30%	\$580.51
Subtotal				\$580.51
Compartment B Pump Station				
Pump Power Demands (per cfs)	1600	\$327.80	30%	\$681,824.00
New Levee Grading Maintenance (per mi)	1	\$10,927.00	30%	\$14,205.10
Pump Maintenance (per pump)	4	\$2,731.75	30%	\$14,205.10
Subtotal				\$710,234.20
Gated Water Control Structures				
7' X 7' Gated Water Control Intermediate Structure (S-5AE)	2	\$8,742.00	30%	\$3,409.38
10' x 10' Gate (Str. G-251G)	2	\$8,742.00	30%	\$3,409.38
9' X 14' Gated Water Control Structure (S-155A)	1	\$8,742.00	30%	\$3,409.38
20' X 10.5' Gated Water Control Structure (Hillsboro Gate)	3	\$8,742.00	30%	\$3,409.38
20' X 15' Gated Water Control Structure (G-338A)	4	\$8,742.00	30%	\$3,409.38
Water Quality Monitoring	1	\$87,416.00	30%	\$34,092.24
Subtotal				\$51,139.14
Compartment B Works				
Vegetation Maintenance of STA (per Ac)	8940	\$87.42	30%	\$1,015,995.24
New Levee Grading Maintenance (per mi)	35	\$3,605.90	30%	\$162,825.51
Monitoring STAs	1	\$1,311,240.00	30%	\$1,704,612.00
Gate Maintenance (test, oil, etc)	19	\$8,742.00	30%	\$215,927.40
STA Site Manager	1	\$125,000.00	0%	\$125,000.00
Subtotal				\$3,224,360.15

Compartment C Works					
Vegetation Maintenance of STAs (per Ac)	6990	\$87.42	30%		\$794,385.54
New Levee Grading Maintenance (per mi)	30	\$3,605.90	30%		\$142,760.86
Monitoring STAs	1	\$1,639,050.00	30%		\$2,130,765.00
Gate Maintenance (test, oil, etc)	23	\$8,742.00	30%		\$261,385.80
STA Site Manager	1	\$125,000.00	0%		\$125,000.00
Subtotal					\$3,454,297.20
A1 NE Pump Station (increased to 5000 cfs)					
Pump Power demands (cfs)	5000	\$327.80	30%		\$2,130,700.00
Pump Station Bldg Maintenance	2	\$10,000.00	30%		\$26,000.00
Pump Maintenance (per pump)	4	\$2,500.00	30%		\$13,000.00
Subtotal					\$2,169,700.00
L-7 Canal					
Vegetation Maintenance of Canals (per Ac)	18.4	\$33.77	30%		\$807.78
New Levee Grading Maintenance (per mi)	15.2	\$3,605.90	30%		\$71,252.58
Subtotal					\$72,060.36
S-6 Diversion					
Vegetation Maintenance of Canals (per Ac)	9	\$33.77	30%		\$397.90
Subtotal					\$397.90
STA-2 Supply					
Vegetation Maintenance of Canals (per Ac)	51	\$33.77	30%		\$2,225.51
Subtotal					\$2,225.51
STA-2 Inflow Canal					
Vegetation Maintenance of Canals (per Ac)	41	\$33.77	30%		\$1,814.09
Subtotal					\$1,814.09
Oversite Manager (HQ)					
O&M Staff (HQ)	1	\$200,000.00	0%		\$200,000.00
Subtotal					\$200,000.00
TOTALS					
Yearly Projected Cash Requirements for OM (w/o Cross Canal)				\$9,898,656.29	
Yearly Projected Cash Requirements for OM for Cross Canal Only				\$2,356.25	
Subtotal of OM				\$9,901,012.54	



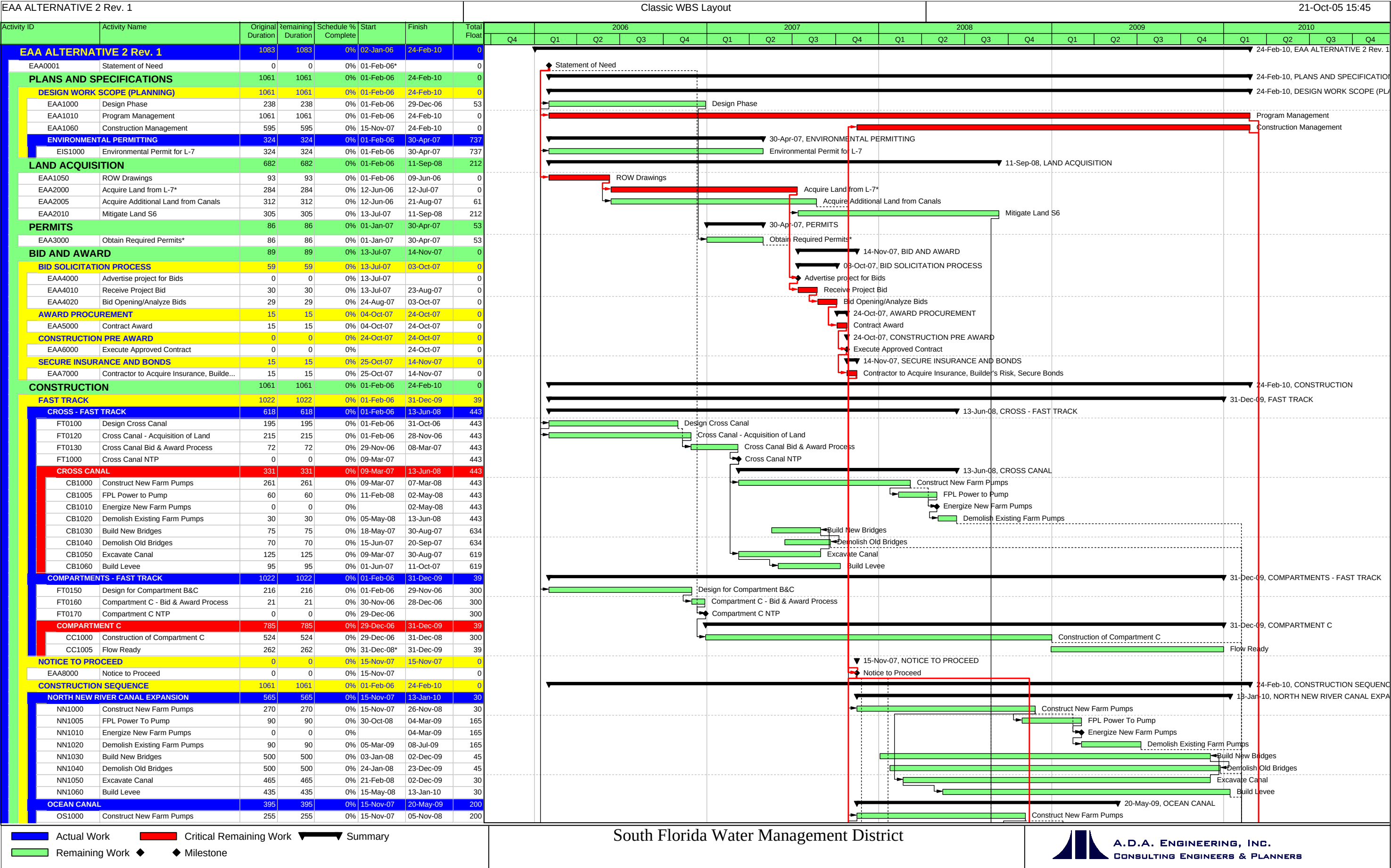
	2006				2007				2008		
Alternative 2 - (Option A)-Projected Cash Flow Analysis	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
Design Phase Cost	3/31/06	6/30/06	9/30/06	12/31/06	3/31/07	6/30/07	9/30/07	12/31/07	3/31/08	6/30/08	9/30/08
Engineering Planning and Design	\$ 1,410,143.73	\$ 2,212,466.88	\$ 2,236,779.71	\$ 2,236,779.71	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 333,702.26	\$ 660,150.12	\$ 660,150.12	\$ 667,404.52
Environmental Permitting	\$ 128,035.32	\$ 200,883.00	\$ 203,090.51	\$ 203,090.51	\$ 198,675.50	\$ 200,883.00	\$ -	\$ -	\$ -	\$ -	\$ -
Program Management	\$ 78,631.67	\$ 123,370.37	\$ 124,726.09	\$ 124,726.09	\$ 122,014.66	\$ 123,370.37	\$ 124,726.09	\$ 124,726.09	\$ 123,370.37	\$ 123,370.37	\$ 124,726.09
Subtotal	\$ 1,616,810.71	\$ 2,536,720.26	\$ 2,564,596.31	\$ 2,564,596.31	\$ 320,690.15	\$ 324,253.38	\$ 124,726.09	\$ 458,428.35	\$ 783,520.50	\$ 783,520.50	\$ 792,130.61
Cross Canal											
Engineering Planning and Design	\$ 314,867.00	\$ 494,015.46	\$ 499,444.20	\$ 499,444.20	\$ 488,586.72	\$ 494,015.46	\$ -	\$ -	\$ -	\$ -	\$ -
Construction Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 293,747.87	\$ 307,253.52	\$ 307,253.52	\$ 310,629.93
Program Management	\$ 32,745.14	\$ 51,376.00	\$ 51,940.57	\$ 51,940.57	\$ 50,811.42	\$ 51,376.00	\$ 51,940.57	\$ 51,940.57	\$ 51,376.00	\$ 51,376.00	\$ 51,940.57
Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,916,638.24	\$ 4,096,713.56	\$ 4,096,713.56	\$ 4,141,732.39
Land Acquisition	\$ 373,656.99	\$ 586,254.94	\$ 592,697.30	\$ 592,697.30	\$ 579,812.57	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operation and Maintenance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal	\$ 721,269.13	\$ 1,131,646.39	\$ 1,144,082.07	\$ 1,144,082.07	\$ 1,119,210.72	\$ 545,391.45	\$ 51,940.57	\$ 4,262,326.68	\$ 4,455,343.08	\$ 4,455,343.08	\$ 4,504,302.89
Construction Cost											
Hillsboro	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 282,582.93	\$ 485,189.55	\$ 490,521.31
North New River	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,965,298.43	\$ 9,822,655.59	\$ 9,822,655.59	\$ 9,930,596.86
Ocean	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 836,780.33	\$ 1,655,369.77	\$ 1,655,369.77	\$ 1,673,560.65
L-7 Canal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 996,385.38	\$ 1,971,110.22	\$ 1,971,110.22	\$ 1,992,770.77
S6 Diversion	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 46,114.51
STA2 Supply	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 412,536.97	\$ 816,105.75	\$ 816,105.75	\$ 825,073.94
STA2 Inflow	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 632,195.95	\$ 1,250,648.51	\$ 1,250,648.51	\$ 1,264,391.90
Compartment B outflow Pump Station (1 - 1600 cfs)	\$ 1,222,392.97	\$ 1,917,892.43	\$ 1,938,968.17	\$ 1,938,968.17	\$ 1,896,816.68	\$ 1,917,892.43	\$ 1,938,968.17	\$ 1,938,968.17	\$ 1,917,892.43	\$ 1,917,892.43	\$ 1,938,968.17
Compartment B Works	\$ -	\$ -	\$ -	\$ 105,683.06	\$ 4,755,737.70	\$ 4,808,579.23	\$ 4,861,420.77	\$ 4,861,420.77	\$ 4,808,579.23	\$ 4,808,579.23	\$ 4,861,420.77
Compartment C Works	\$ -	\$ -	\$ -	\$ 85,743.17	\$ 3,858,442.62	\$ 3,901,314.21	\$ 3,944,185.79	\$ 3,944,185.79	\$ 3,901,314.21	\$ 3,901,314.21	\$ 3,944,185.79
Hillsboro Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 572,614.11	\$ 1,132,780.08	\$ 1,132,780.08	\$ 1,145,228.22
S-5AE Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 67,647.06	\$ 133,823.53	\$ 133,823.53	\$ 135,294.12
G-251G Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,600.00	\$ 582,400.00	\$ 588,800.00
S-155A Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 38,333.33	\$ 75,833.33	\$ 75,833.33	\$ 76,666.67
G-338A Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,432,000.00	\$ 8,832,000.00
Increase A-1 NE Pump Station to 5,000 cfs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equip., demolition, 30" farm pumps	\$ -	\$ -	\$ -	\$ 364.30	\$ 16,393.44	\$ 16,575.59	\$ 16,757.74	\$ 16,757.74	\$ 16,575.59	\$ 16,575.59	\$ 16,757.74
Dewatering	\$ -	\$ -	\$ -	\$ 12.64	\$ 568.65	\$ 574.97	\$ 581.28	\$ 581.28	\$ 574.97	\$ 574.97	\$ 581.28
Rip-rap, random, machine placed for slope protection	\$ -	\$ -	\$ -	\$ 70.63	\$ 3,178.23	\$ 3,213.54	\$ 3,248.86	\$ 3,248.86	\$ 3,213.54	\$ 3,213.54	\$ 3,248.86
Bulkheads, reinforced concrete, 12' high	\$ -	\$ -	\$ -	\$ 101.17	\$ 4,552.76	\$ 4,603.35	\$ 4,653.93	\$ 4,653.93	\$ 4,603.35	\$ 4,603.35	\$ 4,653.93
Subtotal	\$ 1,222,392.97	\$ 1,917,892.43	\$ 1,938,968.17	\$ 2,130,943.13	\$ 10,535,690.09	\$ 10,652,753.32	\$ 10,769,816.54	\$ 19,291,608.10	\$ 27,819,263.03	\$ 35,010,669.66	\$ 37,770,835.49
Land Acqisition and Related Costs											
Hillsboro	\$ 19,643.61	\$ 30,820.15	\$ 31,158.83	\$ 31,158.83	\$ 30,481.47	\$ 30,820.15	\$ 31,158.83	\$ 31,158.83	\$ 30,820.15	\$ 30,820.15	\$ 31,158.83
North New River	\$ 345,828.74	\$ 542,593.37	\$ 548,555.93	\$ 548,555.93	\$ 536,630.80	\$ 542,593.37	\$ 548,555.93	\$ 548,555.93	\$ 542,593.37	\$ 542,593.37	\$ 548,555.93
Ocean	\$ 72,864.90	\$ 114,322.52	\$ 115,578.81	\$ 115,578.81	\$ 113,066.23	\$ 114,322.52	\$ 115,578.81	\$ 115,578.81	\$ 114,322.52	\$ 114,322.52	\$ 115,578.81
L-7 Canal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S6 Diversion	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
STA2 Supply	\$ 45,815.86	\$ 71,883.50	\$ 72,673.43	\$ 72,673.43	\$ 71,093.57	\$ 71,883.50	\$ 72,673.43	\$ 72,673.43	\$ 71,883.50	\$ 71,883.50	\$ 72,673.43
STA2 Inflow	\$ 43,397.99	\$ 68,089.95	\$ 68,838.19	\$ 68,838.19	\$ 67,341.71	\$ 68,089.95	\$ 68,838.19	\$ 68,838.19	\$ 68,089.95	\$ 68,089.95	\$ 68,838.19
Subtotal	\$ 527,551.10	\$ 827,709.48	\$ 836,805.19	\$ 836,805.19	\$ 818,613.77	\$ 827,709.48	\$ 836,805.19	\$ 836,805.19	\$ 827,709.48	\$ 827,709.48	\$ 836,805.19
Operation and Maintenance											
Hillsboro	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
North New River	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ocean	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
L-7 Canal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S-6 Diversion	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
STA 2 Supply	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
STA 2 Inflow	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Hillsboro Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S-5AE Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
G-251G Gate											
S-155A Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
G-338A Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6.35
Increase A-1 NE Pump Station to 5,000 cfs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water Quality Monitoring for Gates	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 114.34
Compartment B outflow Pump Station (1 - 1600 cfs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,372.37
Compartment B works	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Compartment C works	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Oversight Manager	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 658.31
Annual Operation and Maintenance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,151.38
TOTALS											
Qtrly ProjectedExpenses	\$ 4,088,023.92	\$ 6,413,968.56	\$ 6,484,451.73	\$ 6,676,426.69	\$ 12,794,204.73	\$ 12,350,107.63	\$ 11,783,288.39	\$ 24,849,168.32	\$ 33,885,836.09	\$ 41,077,242.71	\$ 43,907,225.56
TOTAL Annual-to-date ProjectedI Expenses	\$ 4,088,023.92	\$ 10,501,992.47	\$ 16,986,444.20	\$ 23,662,870.89	\$ 36,457,075.62	\$ 48,807,183.25	\$ 60,590,471.64	\$ 85,439,639.96	\$ 119,325,476.05	\$ 160,402,718.77	\$ 204,309,944.32

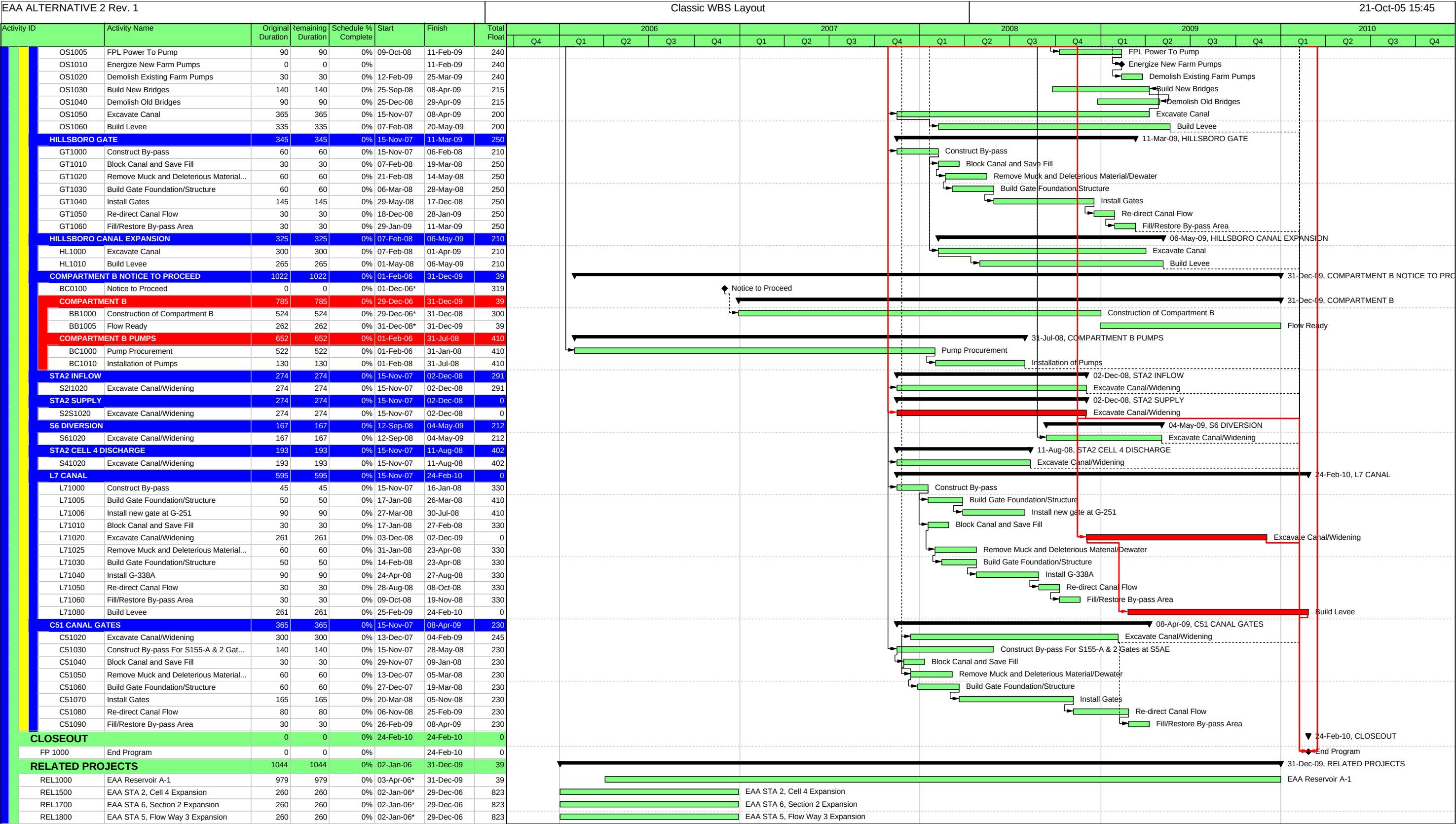
	2009					2010				2011				TOTALS
Alternative 2 - (Option A)-Projected Cash Flow Analysis	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Design Phase Cost	12/31/08	3/31/09	6/30/09	9/30/09	12/31/09	3/31/10	6/30/10	9/30/10	12/31/10	3/31/11	6/30/11	9/30/11	12/31/11	
Engineering Planning and Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,096,170.02
Construction Management	\$ 667,404.52	\$ 652,895.73	\$ 660,150.12	\$ 667,404.52	\$ 667,404.52	\$ 652,895.73	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,289,562.18
Environmental Permitting	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,134,657.84
Program Management	\$ 124,726.09	\$ 122,014.66	\$ 123,370.37	\$ 124,726.09	\$ 124,726.09	\$ 122,014.66	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,059,336.24
Subtotal	\$ 792,130.61	\$ 774,910.38	\$ 783,520.50	\$ 792,130.61	\$ 792,130.61	\$ 774,910.38	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17,579,726.27
Cross Canal														
Engineering Planning and Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,790,373.03
Construction Management	\$ 310,629.93	\$ 303,877.10	\$ 307,253.52	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,140,645.38
Program Management	\$ 51,940.57	\$ 50,811.42	\$ 51,376.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 702,891.37
Construction	\$ 4,141,732.39	\$ 4,051,694.73	\$ 4,096,713.56	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 28,541,938.44
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,725,119.10
Operation and Maintenance	\$ -	\$ -	\$ 2.45	\$ 11.87	\$ 11.87	\$ 11.61	\$ 11.74	\$ 11.87	\$ 11.87	\$ 11.61	\$ 11.74	\$ 11.87	\$ 11.87	\$ 120.38
Subtotal	\$ 4,504,302.89	\$ 4,406,383.26	\$ 4,455,345.53	\$ 11.87	\$ 11.87	\$ 11.61	\$ 11.74	\$ 11.87	\$ 11.87	\$ 11.61	\$ 11.74	\$ 11.87	\$ 11.87	\$ 36,901,087.71
Construction Cost														
Hillsboro	\$ 490,521.31	\$ 479,857.80	\$ 485,189.55	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,713,862.45
North New River	\$ 9,930,596.86	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 44,471,803.34
Ocean	\$ 1,673,560.65	\$ 1,637,178.90	\$ 1,655,369.77	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,787,189.85
L-7 Canal	\$ 1,992,770.77	\$ 1,949,449.67	\$ 1,971,110.22	\$ 1,992,770.77	\$ 1,992,770.77	\$ 1,949,449.67	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 18,779,698.45
S6 Diversion	\$ 235,696.39	\$ 230,572.56	\$ 233,134.48	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 745,517.94
STA2 Supply	\$ 825,073.94	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,694,896.36
STA2 Inflow	\$ 1,264,391.90	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,662,276.77
Compartment B outflow Pump Station (1 - 1600 cfs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 20,485,620.20
Compartment B Works	\$ 4,861,420.77	\$ 4,755,737.70	\$ 4,808,579.23	\$ 4,861,420.77	\$ 4,861,420.77	\$ 4,755,737.70	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 62,775,737.70
Compartment C Works	\$ 3,944,185.79	\$ 3,858,442.62	\$ 3,901,314.21	\$ 3,944,185.79	\$ 3,944,185.79	\$ 3,858,442.62	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 50,931,442.62
Hillsboro Gate	\$ 1,145,228.22	\$ 1,120,331.95	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,248,962.66
S-5AE Gate	\$ 135,294.12	\$ 132,352.94	\$ 133,823.53	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 872,058.82
G-251G Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,196,800.00
S-155A Gate	\$ 76,666.67	\$ 75,000.00	\$ 75,833.33	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 494,166.67
G-338A Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,264,000.00
Increase A-1 NE Pump Station to 5,000 cfs	\$ -	\$ 4,876,712.33	\$ 4,986,301.37	\$ 5,041,095.89	\$ 5,041,095.89	\$ 4,931,506.85	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,876,712.33
Equip., demolition, 30" farm pumps	\$ 16,757.74	\$ 16,393.44	\$ 16,575.59	\$ 16,757.74	\$ 16,757.74	\$ 16,393.44	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 216,393.44
Dewatering	\$ 581.28	\$ 568.65	\$ 574.97	\$ 581.28	\$ 581.28	\$ 568.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,506.15
Rip-rap, random, machine placed for slope protection	\$ 3,248.86	\$ 3,178.23	\$ 3,213.54	\$ 3,248.86	\$ 3,248.86	\$ 3,178.23	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 41,952.63
Bulkheads, reinforced concrete, 12' high	\$ 4,653.93	\$ 4,552.76	\$ 4,603.35	\$ 4,653.93	\$ 4,653.93	\$ 4,552.76	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60,096.44
Subtotal	\$ 26,600,649.20	\$ 19,140,329.55	\$ 18,275,623.15	\$ 15,864,715.03	\$ 15,864,715.03	\$ 15,519,829.92	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 270,326,694.82
Land Acqisition and Related Costs														
Hillsboro	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 329,199.83
North New River	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,795,612.65
Ocean	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,221,115.25
L-7 Canal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S6 Diversion	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
STA2 Supply	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 767,810.57
STA2 Inflow	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 727,290.45
Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,841,028.75
Operation and Maintenance														
Hillsboro	\$ -	\$ -	\$ 1.75	\$ 2.92	\$ 2.92	\$ 2.86	\$ 2.89	\$ 2.92	\$ 2.92	\$ 2.86	\$ 2.89	\$ 2.92	\$ 2.92	\$ 30.80
North New River	\$ 19.05	\$ 49.00	\$ 49.54	\$ 50.08	\$ 50.08	\$ 49.00	\$ 49.54	\$ 50.08	\$ 50.08	\$ 49.00	\$ 49.54	\$ 50.08	\$ 50.08	\$ 615.17
Ocean	\$ -	\$ -	\$ 3.72	\$ 8.35	\$ 8.35	\$ 8.17	\$ 8.26	\$ 8.35	\$ 8.35	\$ 8.17	\$ 8.26	\$ 8.35	\$ 8.35	\$ 86.69
L-7 Canal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 138.11	\$ 359.08	\$ 363.02	\$ 363.02	\$ 355.13	\$ 359.08	\$ 363.02	\$ 363.02	\$ 2,663.49
S-6 Diversion	\$ -	\$ -	\$ 1.24	\$ 2.00	\$ 2.00	\$ 1.96	\$ 1.98	\$ 2.00	\$ 2.00	\$ 1.96	\$ 1.98	\$ 2.00	\$ 2.00	\$ 21.16
STA 2 Supply	\$ 3.53	\$ 10.97	\$ 11.09	\$ 11.21	\$ 11.21	\$ 10.97	\$ 11.09	\$ 11.21	\$ 11.21	\$ 10.97	\$ 11.09	\$ 11.21	\$ 11.21	\$ 136.98
STA 2 Inflow	\$ 2.88	\$ 8.94	\$ 9.04	\$ 9.14	\$ 9.14	\$ 8.94	\$ 9.04	\$ 9.14	\$ 9.14	\$ 8.94	\$ 9.04	\$ 9.14	\$ 9.14	\$ 111.65
Hillsboro Gate	\$ -	\$ 3.73	\$ 16.99	\$ 17.18	\$ 17.18	\$ 16.80	\$ 16.99	\$ 17.18	\$ 17.18	\$ 16.80	\$ 16.99	\$ 17.18	\$ 17.18	\$ 191.36
S-5AE Gate	\$ -	\$ -	\$ 15.40	\$ 17.07	\$ 17.07	\$ 16.70	\$ 16.88	\$ 17.07	\$ 17.07	\$ 16.70	\$ 16.88	\$ 17.07	\$ 17.07	\$ 184.99
G-251G Gate														
S-155A Gate	\$ -	\$ -	\$ 15.36	\$ 17.03	\$ 17.03	\$ 16.66	\$ 16.84	\$ 17.03	\$ 17.03	\$ 16.66	\$ 16.84	\$ 17.03	\$ 17.03	\$ 184.55
G-338A Gate	\$ 17.18	\$ 16.80	\$ 16.99	\$ 17.18	\$ 17.18	\$ 16.80	\$ 16.99	\$ 17.18	\$ 17.18	\$ 16.80	\$ 16.99	\$ 17.18	\$ 17.18	\$ 227.95
Increase A-1 NE Pump Station to 5,000 cfs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,574.05	\$ 10,811.67	\$ 10,930.48	\$ 10,930.48	\$ 10,692.86	\$ 10,811.67	\$ 10,930.48	\$ 10,930.48	\$ 86,612.16
Water Quality Monitoring for Gates	\$ 169.67	\$ 165.98	\$ 167.82	\$ 169.67	\$ 169.67	\$ 165.98	\$ 167.82	\$ 169.67	\$ 169.67	\$ 165.98	\$ 167.82	\$ 169.67	\$ 169.67	\$ 2,303.43
Compartment B outflow Pump Station (1 - 1600 cfs)	\$ 3,578.01	\$ 3,500.22	\$ 3,539.11	\$ 3,578.01	\$ 3,578.01	\$ 3,500.22	\$ 3,539.11	\$ 3,578.01	\$ 3,578.01	\$ 3,500.22	\$ 3,539.11	\$ 3,578.01	\$ 3,578.01	\$ 48,536.43
Compartment B works	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,890.51	\$ 16,067.07	\$ 16,243.63	\$ 16,243.63	\$ 15,890.51	\$ 16,067.07	\$ 16,243.63	\$ 16,243.63	\$ 128,889.66
Compartment C works	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17,023.70	\$ 17,212.85	\$ 17,402.00	\$ 17,402.00	\$ 17,023.70	\$ 17,212.85	\$ 17,402.00	\$ 17,402.00	\$ 138,081.09
Oversight Manager	\$ 976.85	\$ 955.62	\$ 966.23	\$ 976.85	\$ 976.85	\$ 955.62	\$ 966.23	\$ 976.85	\$ 976.85	\$ 955.62	\$ 966.23	\$ 976.85	\$ 976.85	\$ 13,261.84
Annual Operation and Maintenance	\$ 4,767.17	\$ 4,711.26	\$ 4,814.30	\$ 4,876.69	\$ 4,876.69	\$ 48,397.04	\$ 49,274.35	\$ 49,815.83	\$ 49,815.83	\$ 48,732.87	\$ 49,274.35	\$ 49,815.83	\$ 49,815.83	\$ 422,139.40
TOTALS														
Qtrly ProjectedExpenses	\$ 31,901,849.88	\$ 24,326,334.46	\$ 23,519,303.47	\$ 16,661,734.21	\$ 16,661,734.21	\$ 16,343,148.96	\$ 49,286.09	\$ 49,827.70	\$ 49,827.70	\$ 48,744.49	\$ 49,286.09	\$ 49,827.70	\$ 49,827.70	\$ 334,070,676.95
TOTAL Annual-to-date ProjectedI Expenses	\$ 236,211,794.20	\$ 260,538,128.66	\$ 284,057,432.13	\$ 300,719,166.34	\$ 317,380,900.55	\$ 333,724,049.51	\$ 333,773,335.60	\$ 333,823,163.29	\$ 333,872,990.99	\$ 333,921,735.47	\$ 333,971,021.56	\$ 334,020,849.26	\$ 334,070,676.95	

Alternative 2A Net Present Worth

Present Date 2/1/06
Escalation Rate (Compounded Annually) 3% Annually
Discount Rate (Compounded Monthly) 6.375% Annually

Design Phase Cost	Begin	End	2006 Cost	years	Escalated Value	mid-Date	months	Present Worth Value
Engineering Planning and Design	2/1/06	12/29/06	\$ 8,047,544.38	0	\$ 8,047,544.38	7/16/06	5.44	\$ 7,818,851.58
Construction Management	11/15/07	2/24/10	\$ 6,035,658.28	4	\$ 6,793,186.57	1/4/09	35.11	\$ 5,639,974.94
Environmental Permitting	2/1/06	4/30/07	\$ 1,000,000.00	1	\$ 1,030,000.00	9/15/06	7.45	\$ 990,152.39
Program Management	2/1/06	2/24/10	\$ 2,011,886.09	5	\$ 2,332,327.39	2/13/08	24.39	\$ 2,049,536.73
Subtotal			\$ 17,095,088.75					\$ 16,498,515.64
Cross Canal	Begin	End	2006 Cost	years	Escalated Value	mid-Date	months	Present Worth Value
Engineering Planning and Design	2/1/06	6/26/07	\$ 2,768,658.07	1	\$ 2,851,717.81	10/14/06	8.38	\$ 2,727,817.30
Construction Management	10/5/07	6/11/09	\$ 2,076,493.55	3	\$ 2,269,040.57	8/7/08	30.20	\$ 1,933,552.07
Program Management	2/1/06	6/11/09	\$ 692,164.52	3	\$ 756,346.86	10/7/07	20.15	\$ 679,745.45
Construction	10/5/07	6/11/09	\$ 27,686,580.67	3	\$ 30,253,874.23	8/7/08	30.20	\$ 25,780,694.20
Land Acquisition and related costs	2/1/06	2/20/07	\$ 2,473,866.98	1	\$ 2,548,082.99	8/12/06	6.31	\$ 2,464,270.51
Annual Operation and Maintenance	6/11/09	6/11/59	\$ 2,356.25	53	\$ 295,349.33	6/11/34	340.50	\$ 48,619.21
Subtotal			\$ 35,700,120.04					\$ 33,634,698.74
Construction Cost	Begin	End	2006 Cost	years	Escalated Value	mid-Date	months	Present Worth Value
Hillsboro	2/7/08	5/6/09	\$ 2,420,616.02	3	\$ 2,645,072.48	9/21/08	31.66	\$ 2,236,581.21
North New River	11/15/07	11/26/08	\$ 40,693,858.88	2	\$ 43,172,114.89	5/21/08	27.63	\$ 37,292,181.80
Ocean	11/15/07	5/20/09	\$ 10,041,363.91	3	\$ 10,972,469.46	8/17/08	30.51	\$ 9,334,677.04
L-7 Canal	11/15/07	2/24/10	\$ 18,021,579.14	4	\$ 20,283,446.09	1/4/09	35.11	\$ 16,840,127.45
S-6 Diversion	9/12/08	5/4/09	\$ 599,488.66	3	\$ 655,077.44	1/7/09	35.21	\$ 543,587.32
STA 2 Supply	11/15/07	12/2/08	\$ 3,434,818.70	2	\$ 3,643,999.16	5/24/08	27.73	\$ 3,146,051.16
STA 2 Inflow	11/15/07	12/2/08	\$ 5,263,718.45	2	\$ 5,584,278.91	5/24/08	27.73	\$ 4,821,194.07
Compartment B outflow Pump Station	2/1/06	7/31/08	\$ 19,200,000.00	2	\$ 20,369,280.00	5/2/07	14.98	\$ 18,815,517.97
Compartment B Works	12/29/06	12/31/09	\$ 58,020,000.00	3	\$ 63,400,020.54	6/30/08	28.93	\$ 54,389,568.34
Compartment C Works	12/29/06	12/31/09	\$ 47,073,000.00	3	\$ 51,437,938.07	6/30/08	28.93	\$ 44,127,544.82
Hillsboro Gate	11/15/07	3/11/09	\$ 6,000,000.00	3	\$ 6,556,362.00	7/13/08	29.36	\$ 5,611,844.93
S-5AE Gate	11/15/07	4/8/09	\$ 750,000.00	3	\$ 819,545.25	7/27/08	29.82	\$ 699,771.98
G-251G Gate	3/27/08	7/30/08	\$ 800,000.00	2	\$ 848,720.00	5/28/08	27.86	\$ 732,233.07
S-155A Gate	11/15/07	4/8/09	\$ 425,000.00	3	\$ 464,408.98	7/27/08	29.82	\$ 396,537.45
G-338A Gate	4/24/08	8/27/08	\$ 12,000,000.00	2	\$ 12,730,800.00	6/25/08	28.78	\$ 10,930,054.89
Increase A-1 NE Pump Station to 5,000 cfs	1/1/09	1/1/10	\$ 20,000,000.00	4	\$ 22,510,176.20	7/2/09	41.01	\$ 18,113,525.50
Equip., demolition, 30" farm pumps	12/29/06	12/31/09	\$ 200,000.00	3	\$ 218,545.40	6/30/08	28.93	\$ 187,485.59
Dewatering	12/29/06	12/31/09	\$ 6,937.50	3	\$ 7,580.79	6/30/08	28.93	\$ 6,503.41
Rip-rap, random, machine placed for slope protection	12/29/06	12/31/09	\$ 38,774.40	3	\$ 42,369.83	6/30/08	28.93	\$ 36,348.21
Bulkheads, reinforced concrete, 12' high	12/29/06	12/31/09	\$ 55,543.68	3	\$ 60,694.08	6/30/08	28.93	\$ 52,068.20
Subtotal			\$ 245,044,699.33					\$ 228,313,404.41
Land Acquisition and Related Costs	Begin	End	2006 Cost	years	Escalated Value	mid-Date	months	Present Worth Value
Hillsboro	2/1/06	9/11/08	\$ 322,764.85	2	\$ 342,421.23	5/23/07	15.67	\$ 315,146.50
North New River	2/1/06	9/11/08	\$ 5,682,323.92	2	\$ 6,028,377.45	5/23/07	15.67	\$ 5,548,201.74
Ocean	2/1/06	9/11/08	\$ 1,197,245.71	2	\$ 1,270,157.97	5/23/07	15.67	\$ 1,168,986.64
L-7 Canal	6/12/06	7/12/07	\$ -	1	\$ -	12/26/06	10.80	\$ -
S-6 Diversion	2/1/06	9/11/08	\$ -	2	\$ -	5/23/07	15.67	\$ -
STA 2 Supply	2/1/06	9/11/08	\$ 752,801.93	2	\$ 798,647.57	5/23/07	15.67	\$ 735,033.24
STA 2 Inflow	2/1/06	9/11/08	\$ 713,073.86	2	\$ 756,500.06	5/23/07	15.67	\$ 696,242.89
Subtotal			\$ 8,668,210.28					\$ 8,463,611.02
Operation and Maintenance	Begin	End	2006 Cost	years	Escalated Value	mid-Date	months	Present Worth Value
Hillsboro	5/6/09	5/6/59	\$ 580.51	53	\$ 81,360.54	5/6/34	339.32	\$ 13,477.50
North New River	11/26/08	2/24/60	\$ 10,189.55	54	\$ 1,428,103.98	7/11/34	341.51	\$ 233,843.00
Ocean	5/20/09	5/20/59	\$ 1,657.68	53	\$ 223,906.07	5/20/34	339.78	\$ 37,000.03
L-7 Canal	2/24/10	2/24/60	\$ 72,060.36	54	\$ 10,476,739.45	2/24/35	348.99	\$ 1,648,845.05
S-6 Diversion	5/4/09	5/4/59	\$ 397.90	53	\$ 55,767.28	5/4/34	339.25	\$ 9,241.15
STA 2 Supply	12/2/08	12/2/58	\$ 2,225.51	52	\$ 300,602.64	12/2/33	334.22	\$ 51,158.08
STA 2 Inflow	12/2/08	12/2/58	\$ 1,814.09	52	\$ 245,032.20	12/2/33	334.22	\$ 41,700.82
Hillsboro Gate	3/11/09	3/11/59	\$ 3,409.38	53	\$ 477,837.45	3/11/34	337.48	\$ 79,930.42
S-5AE Gate	4/8/09	7/30/59	\$ 3,409.38	53	\$ 427,355.84	6/3/34	340.26	\$ 70,441.56
G-251G Gate	7/30/08	7/30/58	\$ 3,409.38	52	\$ 427,355.84	7/30/33	330.12	\$ 74,330.59
S-155A Gate	4/8/09	9/12/59	\$ 3,409.38	53	\$ 427,355.84	6/25/34	340.98	\$ 70,172.12
G-338A Gate	8/27/08	8/27/58	\$ 3,409.38	52	\$ 460,510.48	8/27/33	331.04	\$ 79,707.51
Increase A-1 NE Pump Station to 5,000 cfs	1/1/10	1/1/60	\$ 2,169,700.00	54	\$ 293,064,893.31	1/1/35	347.21	\$ 46,558,899.55
Water Quality Monitoring for Gates	7/30/08	3/11/59	\$ 34,092.24	53	\$ 4,778,155.91	11/19/33	333.80	\$ 815,014.35
Compartment B outflow Pump Station	7/31/08	7/31/58	\$ 710,234.20	52	\$ 89,025,784.79	7/31/33	330.15	\$ 15,481,681.36
Compartment B Works	12/31/09	12/31/59	\$ 3,224,360.15	53	\$ 435,519,547.65	12/31/34	347.18	\$ 69,202,568.62
Compartment C Works	12/31/09	12/31/59	\$ 3,454,297.20	53	\$ 432,986,075.66	12/31/34	347.18	\$ 68,800,008.57
Oversight Manager	7/30/08	2/24/60	\$ 200,000.00	54	\$ 29,077,676.27	5/13/34	339.55	\$ 4,810,891.15
Annual Operation and Maintenance			\$ 9,898,656.29					\$ 208,078,911.43
TOTALS								
TOTAL Net Present Worth								\$ 494,989,141.24
TOTAL Net Present Worth without Compartments B/C								\$ 224,172,251.55







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EAA REGIONAL FEASIBILITY STUDY
South Florida Water Management District
ADA Project No. C110-05-003
PROBABLE PLANNING-LEVEL OPINION OF CAPITAL COST
ALTERNATIVE 2- OPTION B

DATE: 10/03/05

DESIGN PHASE

ITEM NO.	DESCRIPTION	UOM	COST	QUANTITY	TOTAL
1	Ocean Canal	ls	\$2,008,273	1.00	\$2,008,273
2	Hillsboro	ls	\$484,123	1.00	\$484,123
3	Cross Canal	ls	\$5,537,316	1.00	\$5,537,316
4	North New River (Run 37)	ls	\$5,467,447	1.00	\$5,467,447
5	L-7 Canal	ls	\$3,604,316	1.00	\$3,604,316
5a	Environmental Permitting	ls	\$500,000	1.00	\$500,000
6	S-6 Diversion	ls	\$119,898	1.00	\$119,898
7	STA-2 Supply	ls	\$686,964	1.00	\$686,964
8	STA- 2 Inflow Canal	ls	\$1,052,744	1.00	\$1,052,744
DESIGN PHASE TOTAL					\$19,461,081

CONSTRUCTION COST

ITEM NO.	DESCRIPTION	UOM	COST	QUANTITY	TOTAL
1	Ocean Canal	ls	\$10,041,364	1.00	\$10,041,364
2	Hillsboro	ls	\$2,420,616	1.00	\$2,420,616
3	Cross Canal	ls	\$27,686,581	1.00	\$27,686,581
4	North New River (Run 37)	ls	\$27,337,237	1.00	\$27,337,237
5	L-7 Canal	ls	\$18,021,579	1.00	\$18,021,579
6	S-6 Diversion	ls	\$599,489	1.00	\$599,489
7	STA-2 Supply	ls	\$3,434,819	1.00	\$3,434,819
8	STA- 2 Inflow Canal	ls	\$5,263,718	1.00	\$5,263,718
02070-1090	Equip, demolition, 30" farm pumps	ea	\$10,000	20.00	\$200,000
02240-100	Dewatering	cy	\$0.25	27,750.00	\$6,938
02480-0010	Rip-rap, random, machine placed for slope protection	cy	\$40.39	960.00	\$38,774
02500-0020	Bulkheads, reinforced concrete, 12' high	lf	\$289.29	192.00	\$55,544
	7' X 7' Gates (Str. S-5AE)	ea	\$375,000	2.00	\$750,000
	10' X 10' Gates (Str. G-251G)	ea	\$400,000	2.00	\$800,000
	9' X 14' Gate (Str. S-155A)	ea	\$425,000	1.00	\$425,000
	20' X 10.5' Gate (Hillsboro gate)	ea	\$2,000,000	3.00	\$6,000,000
	20' X 15' Gate (Str. G-338A)	ea	\$3,000,000	4.00	\$12,000,000
	Increase pumping capacity of A-1 NE pump station to 5000 cfs	cfs	\$10,000	2,000.00	\$20,000,000
CONSTRUCTION COST TOTAL					\$135,081,658

COMPARTMENT B/C

ITEM NO.	DESCRIPTION	UOM	COST	QUANTITY	TOTAL
15230-501	Compartment B outflow Pump Station (1 - 1600 cfs)	cfs	\$12,000	1,600.00	\$19,200,000
	**Compartment B works	ls	\$58,020,000	1.00	\$58,020,000
	Compartment C works	ls	\$47,073,000	1.00	\$47,073,000
COMPARTMENT B/C TOTAL					\$124,293,000

LAND ACQUISITION

ITEM NO.	DESCRIPTION	UOM	COST	QUANTITY	TOTAL
1	Ocean Canal	ls	\$1,197,246	1.00	\$1,197,246
2	Hillsboro	ls	\$322,765	1.00	\$322,765
3	Cross Canal	ls	\$2,473,867	1.00	\$2,473,867
4	North New River (Run 37)	ls	\$2,836,041	1.00	\$2,836,041
5	L-7 Canal	ls	\$0	1.00	\$0
6	S-6 Diversion	ls	\$0	1.00	\$0
7	STA-2 Supply	ls	\$752,802	1.00	\$752,802
8	STA- 2 Inflow Canal	ls	\$713,074	1.00	\$713,074
LAND ACQUISITION TOTAL					\$8,295,794

TOTAL PROBABLE COST

\$287,131,533

* Sta Cell 4 Discharge includes Design Phase, Constuction and Land Acquisition costs

** Compartment B works cost includes the structure removal of G-336G located in L-6 canal)



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EAA REGIONAL FEASIBILITY STUDY
South Florida Water Management District
ADA Project No. C110-05-003
CUT AND FILL COST
ALTERNATIVE 2- OPTION B

DATE: 10/03/05

The costs presented below are a part of the total cost for **Alternative 2, Option B**. These data are presented as additional information to assist readers in understanding cut and fill unit cost.

ITEM NO.	DESCRIPTION	EXCAVATION COST	VOLUME (CY)	COST PER CY
1	Ocean Canal	\$4,120,129	1,295,327	\$3.18
2	Hillsboro	\$1,634,556	505,608	\$3.23
3	Cross Canal	\$12,464,032	4,100,081	\$3.04
4	North New River	\$12,863,831	3,873,880	\$3.32
5	L-7 Canal	\$11,482,286	1,641,040	\$7.00
6	S-6 Diversion	\$399,608	200,606	\$1.99
7	STA-2 Supply	\$2,284,940	1,147,058	\$1.99
8	STA- 2 Inflow Canal	\$3,497,867	1,755,958	\$1.99
TOTAL		\$48,747,250	14,519,557	\$3.22
				<i>Average cost/CY</i>

* For total cost per canal see summary of Probable Planning-Level opinion of Capital Cost



A.D.A. Engineering, Inc.
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EAA REGIONAL FEASIBILITY STUDY
South Florida Water Management District
ADA Project No. C110-05-003
PROBABLE PLANNING-LEVEL OPINION OF CAPITAL COST
NORTH NEW RIVER RUN 37 (Alternative 2, Option B)

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DATE: 10/03/05

Construction Cost						
Item No.	Description	UOM	Soft Cost (%)	Cost	Quantity	Total
01050-001	Temporary facilities	mo		\$2,500.00	0.00	\$0.00
01200-001	Rental-Crusher, Incl mob, de-mob and operation	ea		\$40,000.00	0.00	\$0.00
01200-001	Field Vehicles	ea		\$23,750.00	0.00	\$0.00
01250-001	Survey for Stage Monitor Set-up	ls		\$35,000.00	0.00	\$0.00
02060-0450	Site demo, pipe removal, sewer/water, no exc, 48"-6"0	cy		\$1.01	0.00	\$0.00
02070-1090	Equip, dml, 30" vertical turbine pump, motor, complete	ea		\$1,144.16	0.00	\$0.00
02170-0050	Saw cutting, concrete walls, rod reinforced, perim of depth	lf		\$9.46	0.00	\$0.00
02220-001	Remove Water structure	ea		\$50,000.00	0.00	\$0.00
02220-110	Building Demolition	sf		\$25.00	30,300.00	\$757,500.00
02230-100	Clearing and Grubbing	Ac		\$1,200.00	665.43	\$798,519.28
02230-100	Light Clearing	Ac		\$600.00	0.00	\$0.00
02230-102	Clear and Grub Levee Area	Ac		\$515.00	0.00	\$0.00
02230-200	Herbicide Treatment (for removal of exotic vegetation)	Ac		\$240.00	0.00	\$0.00
02230-300	Tree removal more 600 Tree/Ac	Ac		\$3,650.00	13.31	\$48,576.59
02230-310	Seeding and Mulching and Watering	Ac		\$1,200.00	0.00	\$0.00
02230-311	Seeding and Grassing	Ac		\$2,000.00	0.00	\$0.00
02240-0150	Dewatering, pumping 8 hr, unattended, 8" centrifugal pump	ea		\$238.49	0.00	\$0.00
02240-0160	Dewatering, pumping 8 hr, unattended, add per additional 8"pump	day		\$110.55	0.00	\$0.00
02240-100	Dewatering	cy		\$0.25	0.00	\$0.00
02300-100	Earthwork Construction to supply water to inflow canal	cy		\$4.00	0.00	\$0.00
02305-100	Mobilization/Demo of offices/equipment/personnel	LS		\$250,000.00	0.00	\$0.00
02315-100	Excavation (heavy) Includes Entrance Canal	cy		\$3.50	387,387.97	\$1,355,857.88
02315-101	Excavation (light) Includes Entrance Canal	cy		\$2.55	774,775.93	\$1,975,678.62
02315-320	Compact Spoil	cy		\$1.00	3,231,000.67	\$3,231,000.67
02315-321	Compact Spoil Mob & Demob	cy		\$5.75	0.00	\$0.00
02315-416	Drilling and Blasting Canal	cy		\$1.00	774,775.93	\$774,775.93
02315-424	Excavate Existing Spoil	cy		\$1.00	387,387.97	\$387,387.97
02315-431	Peat Excavation & Placement to dry	cy		\$2.60	0.00	\$0.00
02315-432	Peat Excavation	cy		\$0.60	774,775.93	\$464,865.56
02315-461	Cap rock and Marl Excavation (Heavy)	cy		\$6.75	0.00	\$0.00
02315-462	Cap rock Excavation	cy		\$2.00	774,775.93	\$1,549,551.86
02315-509	Place Spoil 3passes, Let Dry	cy		\$4.50	0.00	\$0.00
02315-510	Place Spoil	cy		\$1.00	0.00	\$0.00
02320-0030	Backfill, FE loader, bulk up to 150' haul, no compaction	cy		\$1.40	0.00	\$0.00
02320-0030	Backfill, dozer backfill, bulk, up to 150' haul, no compaction	cy		\$1.00	0.00	\$0.00
02340-0010	Bedding, crushed stone 3/4" to 1/2"	cy		\$16.50	0.00	\$0.00
02340-0010	9" Bedding	cy		\$26.05	0.00	\$0.00
02360-0020	Compaction, sheepsfoot of wobbly wheel roller, 24" lift, select fill	cy		\$0.14	0.00	\$0.00
02360-0030	Compaction, Vibratory plate, 8" lifts, Subgrade	cy		\$1.15	0.00	\$0.00
02360-0031	Compaction, vibratory plate, 24" lifts, subgrade	cy		\$0.31	538,500.11	\$166,935.03
02360-0032	Compaction, vibratory plate, 24" lifts, Backfill	cy		\$0.31	538,500.11	\$166,935.03
02360-0040	Compaction, Vibratory plate, 8" lifts, Bedding	cy		\$1.15	0.00	\$0.00
02370-0050	Drilling and Blasting, bulk drilling and blasting, can vary greatly, avg	cy		\$2.00	0.00	\$0.00
02390-0010	Backhoe Excavation and Load Blasted Material	cy		\$1.56	774,775.93	\$1,208,650.45
02396-0050	Excavating and Loading Road, FE Loader, whl mtd, 1.5	cy		\$2.25	0.00	\$0.00
02396-0050	Excavate and Spread loose, 300' haul, FE LDR, whl mtd, 1.5 cy cap	cy		\$2.29	0.00	\$0.00
02430-0010	Fill, spread dumped matl, by dozer, no compaction	cy		\$1.03	376,950.08	\$388,258.58
02430-0030	Fill, spread f, from stockpile w/2-1/2 cy FE LDR, 130 HP, 300'haul	cy		\$1.54	0.00	\$0.00
02450-0010	Excavate Trench, cont ftg, no sht or dewater, 4'-6" D, 1.5 cy hyd bac	cy		\$1.66	0.00	\$0.00
02460-0010	Hauling, LCY, no loading, 16cy dump truck, 4 mile RT, 1.6 lds/hr	cy		\$2.84	161,550.03	\$458,802.09
02460-0020	Hauling, LCY, no loading, 12 cy Dump Truck, IDM, RT, .60 LDS/hr	cy		\$11.42	0.00	\$0.00
02460-0900	Loading trucks FE LDR, 3cy	cy		\$1.19	161,550.03	\$192,244.54
02470-0020	Soil Stabilization, geotex fabric, woven, HD, 600lb tensile set	cy		\$1.82	298,289.20	\$542,886.34
02480-0010	Rip-rap, random, machine placed for slope protection	cy		\$40.39	0.00	\$0.00
02500-0020	Bulkheads, reinforced concrete, 12' high	lf		\$289.29	0.00	\$0.00
02560-0990	Drainage, 8' X 8' precast Box culvert, 8' Section	lf		\$278.71	0.00	\$0.00
02630-100	Major Culvert Replacement	ea		\$100,000.00	0.00	\$0.00
02630-101	Minor Culvert Replacement	ea		\$35,000.00	0.00	\$0.00
02630-200	Internal Gated STR-1670 cfs	ea		\$82,000.00	0.00	\$0.00
02630-201	Internal Gated STR-1200 cfs	ea		\$65,000.00	0.00	\$0.00
02720-200	Temporary Construction (Shoo-fly: temporary by-pass)	ft		\$100.00	0.00	\$0.00
02720-200B	New Agr Bridges	EA		\$500,000.00	7.00	\$3,500,000.00
02740-310	Approach Reconstruction	ft		\$200.00	70.00	\$14,000.00
02840-0310	Seeding, mechanical seeding, 215 lb/acre	Ac		\$671.16	104.34	\$70,028.74

Item No.	Description	UOM	Soft Cost (%)	Cost	Quantity	Total
02840-0311	Hydro Seeding	Ac		\$2,130.00	0.00	\$0.00
02840-910	Traffic Control	LS		\$40,000.00	0.00	\$0.00
02850-100	Bridge Extension	sf		\$500.00	0.00	\$0.00
02850-102	Culvert Bridge	ls		\$750,000.00	0.00	\$0.00
02850-210A	Bridge Construction	sf		\$120.00	0.00	\$0.00
03300-001	12' X 22' precast concrete bldg + delivery	ea		\$25,902.13	3.00	\$77,706.39
05090-0010	Floor grating, alum, up to 300 sf, 1.5"1/8 bar, galvanized	sf		\$14.21	0.00	\$0.00
11010-001	Stilling Wells With Electrical and Telemetry	ea		\$30,000.00	0.00	\$0.00
11010-001	Stilling Well	pr		\$10,750.00	0.00	\$0.00
11040-001	Slide gate position sensor	ea		\$23,000.00	0.00	\$0.00
11040-0290	Hydraulic STR, slide gate, SS, ab & grout 96" X 96"	ea		\$17,875.33	0.00	\$0.00
11040-0380	Slide Gate-Hydraulic STR, stainless Stl , 72" X 72", elec oper	ea		\$38,331.82	0.00	\$0.00
11050-0290	Sluice Gate, Hydraulic STR, HD self cont with actuator, 84" X 60"	ea		\$46,029.05	0.00	\$0.00
15090-0220	Piping, Water dist, conc. Pipe, gasket, 72" dia	ea		\$10.17	0.00	\$0.00
15096-0120	Piping Drainage and Sewage, RCP, class 3, no gaskets, 72" dia	lf		\$152.32	0.00	\$0.00
15230-500	Farm Pump Station Relocation	ea		\$300,000.00	4.00	\$1,200,000.00
15230-501	Pump Station	cfs		\$6,000.00	0.00	\$0.00
15230-502	Retrofit Pump Station	cfs		\$500.00	0.00	\$0.00
15230-503	Telemetry for Pump Station	ea		\$500,000.00	0.00	\$0.00
15230-504	Extension of OH Powerline to Pump Station Area	Mi		\$95,000.00	0.61	\$57,950.00
16195-001	Power Distribution	mi		\$80,000.00	0.00	\$0.00
16195-001	Electrical Control Structure	ea		\$698,000.00	0.00	\$0.00
17150-001	Telemetry	ea		\$10,750.00	0.00	\$0.00
CNL-100	Canal Cross Enlargement	Ac		\$3,500.00	0.00	\$0.00
CNL-110	Canal Enlargement (average)	mi		\$1,122,500.00	0.00	\$0.00
CNL-200	Construction of borrow canal	cy		\$4.25	0.00	\$0.00
CNL-300	Conveyance Canal	Ac		\$3,500.00	0.00	\$0.00
CNL-301	Excavate Canal Extension	cy		\$6.50	0.00	\$0.00
CNL-400	Infill internal drainage canal	cy		\$2.75	0.00	\$0.00
DEG-100	Degrade Farm Roads	cy		\$2.25	0.00	\$0.00
DEG-101	Degrade Interior Agricultural Ditches	mi		\$20,000.00	0.00	\$0.00
DEG-102	Degrading Includes Balance Material Ac	Ac		\$1,000.00	0.00	\$0.00
PLG-01	Plug inflow	cy		\$3.50	0.00	\$0.00
RB104-11	Silt Fence placement& Maintenance	lf		\$5.50	0.00	\$0.00
SPILL-01	Spillway	cfs		\$1,200.00	0.00	\$0.00
STR 1	Control Structure	ea	Varies		0.00	\$0.00
STR 2	10' X 10' Gated Water Control Structure with Telemetric Control	ea		\$425,000.00	0.00	\$0.00
STR 3	6' X 10' Gated Water Control Inflow Structure	ea		\$475,000.00	0.00	\$0.00
STR 4	8' X 10' Gated Water Control Intermediate Structure	ea		\$375,000.00	0.00	\$0.00
STR 5	8'X8' Gated water control structure	ea		\$340,000.00	0.00	\$0.00
STR 6	9' X 10' gated water control structure	ea		\$80,950.00	0.00	\$0.00
STR 7	Construction of twin Barreled Water Control Structure	ea		\$950,000.00	0.00	\$0.00
STR 8	Precast 72" X 72" Gate Structure	ea		\$40,204.22	0.00	\$0.00
STR-EQ 1	Water Control STR Electrical and Telemetry	ea		\$50,950.00	0.00	\$0.00
USACE0815	Separation Levee	Ac		\$3,500.00	0.00	\$0.00
USACE-100	Construction of perimeter Levee	cy		\$3.50	0.00	\$0.00
USACE-101	Degrade Levee at Inflow Weir	cy		\$1.25	0.00	\$0.00
					Subtotal	\$19,388,111.56
Cont-1	Construction Cost Contingency	LS	30.0%		1.00	\$5,816,433.47
MISCTOOL1	Small Tools	LS	5%		1.00	\$969,405.58
MISCTOOL2	Equipment and Fuel Maintenance	LS	6%		1.00	\$1,163,286.69
					TOTAL	\$27,337,237.30

LAND COST						
	Land Acquisitions	Ac		\$7,000.00	263.5	\$1,844,579.55
Cont-2	Land Cost Contingency	LS	50.0%		1.00	\$922,289.77
LANDACQ	Land Acquisitions (appraisals, negotiations, etc..)	LS	2.5%		1.00	\$69,171.73
						\$2,836,041.05

Design Phase						
01107-200	Construction Management	LS	7.5%		1.00	\$2,050,292.80
01107-300	Engineering Planning and Design	LS	10.0%		1.00	\$2,733,723.73
01107-700	Program Management	LS	2.5%		1.00	\$683,430.93
						\$5,467,447.46

Operation and Maintenance						
15230-016	Power Supply to Pump Station	ea		\$2,000,000.00		\$0.00
						\$0.00

GRAND TOTAL	\$35,640,725.81
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EAA REGIONAL FEASIBILITY STUDY
South Florida Water Management District
ADA Project No. C110-05-003
PROBABLE PLANNING-LEVEL OPINION OF CAPITAL COST
ALTERNATIVE 3

DATE: 10/03/05

DESIGN PHASE

ITEM NO.	DESCRIPTION	UOM	COST	QUANTITY	TOTAL
1	Alternative 1 Canal	ls	\$1,454,040	1.00	\$1,454,040
2	Sam Senter (OC-B1)	ls	\$2,676,939	1.00	\$2,676,939
3	Ocean Canal	ls	\$2,008,273	1.00	\$2,008,273
4	Hillsboro Canal	ls	\$484,123	1.00	\$484,123
5	Cross Canal	ls	\$5,537,316	1.00	\$5,537,316
6	North New River Canal	ls	\$8,138,772	1.00	\$8,138,772
7	Manley Ditch (MC-B5)	ls	\$587,816	1.00	\$587,816
8	Manley Ditch Extension (MC-B5-ext)	ls	\$97,193	1.00	\$97,193
9	STA 5 North Seepage	ls	\$82,919	1.00	\$82,919
			DESIGN PHASE TOTAL		\$21,067,392

CONSTRUCTION COST

ITEM NO.	DESCRIPTION	UOM	COST	QUANTITY	TOTAL
1	Alternative 1 Canal	ls	\$7,270,202	1.00	\$7,270,202
2	*Sam Senter (OC-B1)	ls	\$16,290,497	1.00	\$16,290,497
3	Ocean Canal	ls	\$10,041,364	1.00	\$10,041,364
4	Hillsboro Canal	ls	\$2,420,616	1.00	\$2,420,616
5	Cross Canal	ls	\$27,686,581	1.00	\$27,686,581
6	North New River Canal	ls	\$40,693,859	1.00	\$40,693,859
7	Manley Ditch (MC-B5)	ls	\$2,939,078	1.00	\$2,939,078
8	Manley Ditch Extension (MC-B5-ext)	ls	\$485,967	1.00	\$485,967
9	STA 5 North Seepage	ls	\$414,594	1.00	\$414,594
02070-1090	Equip, demolition, 30" farm pumps	ea	\$10,000	20.00	\$200,000
02240-100	Dewatering	cy	\$0.25	27,750.00	\$6,938
02480-0010	Rip-rap, random, machine placed for slope protection	cy	\$40.39	960.00	\$38,774
02500-0020	Bulkheads, reinforced concrete, 12' high	lf	\$289.29	192.00	\$55,544
	Pump station on STA 5-N-Seepage	cfs	\$12,000	550.00	\$6,600,000
	** Structure removal (G-349A)	ea	\$20,000	1.00	\$20,000
	15' x 8' Gate (MC-B5/Alt3-Inflow)	ea	\$1,500,000	2.00	\$3,000,000
	9' X 14' Gate (Str. S-155A)	ea	\$425,000	1.00	\$425,000
	20'x10.5' Gate (West Palm Beach and Hillsboro canals)	ea	\$2,000,000	5.00	\$10,000,000
			CONSTRUCTION COST TOTAL		\$128,589,014

COMPARTMENT B/C

ITEM NO.	DESCRIPTION	UOM	COST	QUANTITY	TOTAL
15230-501	Compartment B Pump Stations (2-1600 cfs P.S.)	cfs	\$12,000	3,200.00	\$38,400,000
	*Compartment B works	ls	\$58,020,000	1.00	\$58,020,000
	Compartment C works	ls	\$47,073,000	1.00	\$47,073,000
			COMPARTMENT B/C TOTAL		\$143,493,000

LAND ACQUISITION

ITEM NO.	DESCRIPTION	UOM	COST	QUANTITY	TOTAL
1	Alternative 1 Canal	ls	\$2,262,027	1.00	\$2,262,027
2	Sam Senter (OC-B1)	ls	\$3,931,459	1.00	\$3,931,459
3	Ocean Canal	ls	\$1,197,246	1.00	\$1,197,246
4	Hillsboro Canal	ls	\$322,765	1.00	\$322,765
5	Cross Canal	ls	\$2,473,867	1.00	\$2,473,867
6	North New River Canal	ls	\$5,682,324	1.00	\$5,682,324
7	Manley Ditch (MC-B5)	ls	\$1,298,018	1.00	\$1,298,018
8	Manley Ditch Extension (MC-B5-ext)	ls	\$199,135	1.00	\$199,135
9	STA 5 North Seepage	ls	\$164,014	1.00	\$164,014
			LAND ACQUISITION TOTAL		\$17,530,855

TOTAL PROBABLE COST

\$310,680,260

* Sam Senter cost includes US 98 Bridge (4 lane divided)

** Compartment B works cost includes the structure removal of G-336G located in L-6 canal



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EAA REGIONAL FEASIBILITY STUDY
South Florida Water Management District
ADA Project No. C110-05-003
CUT AND FILL COST
ALTERNATIVE 3

DATE: 10/03/05

The costs presented below are a part of the total cost for **Alternative 3**. These data are presented as additional information to assist readers in understanding cut and fill unit cost.

ITEM NO.	DESCRIPTION	EXCAVATION COST	VOLUME (CY)	COST PER CY
1	Alternative 1 Canal	\$4,992,931	1,593,448	\$3.13
2	Sam Senter (OC-B1)	\$6,724,350	2,278,307	\$2.95
3	Ocean Canal	\$4,120,129	1,295,327	\$3.18
4	Hillsboro Canal	\$1,634,556	505,608	\$3.23
5	Cross Canal	\$12,464,032	4,100,081	\$3.04
6	North New River Canal	\$22,026,977	6,778,943	\$3.25
7	Manley Ditch (MC-B5)	\$1,607,429	360,184	\$4.46
8	Manley Ditch Extension (MC-B5-ext)	\$319,708	91,957	\$3.48
9	STA 5 North Seepage	\$274,567	54,102	\$5.07

TOTAL	\$54,164,680	17,057,957	\$3.53
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Average cost/CY

OPERATION AND MAINTENANCE COST

Alternative 3 (2006 cost) **\$8,857,004**

* For total cost per canal see summary of Probable Planning-Level opinion of Capital Cost



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EAA REGIONAL FEASIBILITY STUDY
South Florida Water Management District

ADA Project No. C110-05-003

PROBABLE PLANNING-LEVEL OPINION OF CAPITAL COST

MANLEY DITCH (MC-B5)

DATE: 10/03/05

Construction Cost						
Item No.	Description	UOM	Soft Cost (%)	Cost	Quantity	Total
01050-001	Temporary facilities	mo		\$2,500.00	0.00	\$0.00
01200-001	Rental-Crusher, Incl mob, de-mob and operation	ea		\$40,000.00	0.00	\$0.00
01200-001	Field Vehicles	ea		\$23,750.00	0.00	\$0.00
01250-001	Survey for Stage Monitor Set-up	ls		\$35,000.00	0.00	\$0.00
02060-0450	Site demo, pipe removal, sewer/water, no exc, 48"-6"0	cy		\$1.01	0.00	\$0.00
02070-1090	Equip, dml, 30" vertical turbine pump, motor, complete	ea		\$10,000.00	0.00	\$0.00
02170-0050	Saw cutting, concrete walls, rod reinforced, perim of depth	lf		\$9.46	0.00	\$0.00
02220-001	Remove Water structure	ea		\$50,000.00	0.00	\$0.00
02220-110	Building Demolition	sf		\$25.00	0.00	\$0.00
02230-100	Clearing and Grubbing	Ac		\$1,200.00	118.11	\$141,737.18
02230-100	Light Clearing	Ac		\$600.00	0.00	\$0.00
02230-102	Clear and Grub Levee Area	Ac		\$515.00	0.00	\$0.00
02230-200	Herbicide Treatment (for removal of exotic vegetation)	Ac		\$240.00	0.00	\$0.00
02230-300	Tree removal more 600 Tree/Ac	Ac		\$3,650.00	2.36	\$8,622.35
02230-310	Seeding and Mulching and Watering	Ac		\$1,200.00	0.00	\$0.00
02230-311	Seeding and Grassing	Ac		\$2,000.00	0.00	\$0.00
02240-0150	Dewatering, pumping 8 hr, unattended, 8" centrifugal pump	ea		\$238.49	0.00	\$0.00
02240-0160	Dewatering, pumping 8 hr, unattended, add per additional 8"pump	day		\$110.55	0.00	\$0.00
02240-100	Dewatering	cy		\$0.25	0.00	\$0.00
02300-100	Earthwork Construction to supply water to inflow canal	cy		\$4.00	0.00	\$0.00
02305-100	Mobilization/Demo of offices/equipment/personnel	LS		\$250,000.00	0.00	\$0.00
02315-100	Excavation (heavy) Includes Entrance Canal	cy		\$3.50	36,018.41	\$126,064.43
02315-101	Excavation (light) Includes Entrance Canal	cy		\$2.55	72,036.81	\$183,693.88
02315-320	Compact Spoil	cy		\$1.00	514,913.72	\$514,913.72
02315-416	Drilling and Blasting Canal	cy		\$1.00	72,036.81	\$72,036.81
02315-424	Excavate Existing Spoil	cy		\$1.00	36,018.41	\$36,018.41
02315-432	Peat Excavation	cy		\$0.60	72,036.81	\$43,222.09
02315-462	Cap rock Excavation	cy		\$2.00	72,036.81	\$144,073.63
02315-510	Place Spoil	cy		\$1.00	0.00	\$0.00
02320-0030	Backfill, FE loader, bulk up to 150' haul, no compaction	cy		\$1.40	0.00	\$0.00
02320-0030	Backfill, dozer backfill, bulk, up to 150' haul, no compaction	cy		\$1.00	0.00	\$0.00
02340-0010	Bedding, crushed stone 3/4" to 1/2"	cy		\$16.50	0.00	\$0.00
02340-0010	9" Bedding	cy		\$26.05	0.00	\$0.00
02360-0020	Compaction, sheepsfoot of wobbly wheel roller, 24" lift, select fill	cy		\$0.14	0.00	\$0.00
02360-0030	Compaction, Vibratory plate, 8" lifts, Subgrade	cy		\$1.15	0.00	\$0.00
02360-0031	Compaction, vibratory plate, 24" lifts, subgrade	cy		\$0.31	85,818.95	\$26,603.88
02360-0032	Compaction, vibratory plate, 24" lifts, Backfill	cy		\$0.31	85,818.95	\$26,603.88
02360-0040	Compaction, Vibratory plate, 8" lifts, Bedding	cy		\$1.15	0.00	\$0.00
02370-0050	Drilling and Blasting, bulk drilling and blasting, can vary greatly, avg	cy		\$2.00	0.00	\$0.00
02390-0010	Backhoe Excavation and Load Blasted Material	cy		\$1.56	72,036.81	\$112,377.43
02396-0050	Excavating and Loading Road, FE Loader, whl mtd, 1.5	cy		\$2.25	0.00	\$0.00
02396-0050	Excavate and Spread loose, 300' haul, FE LDR, whl mtd, 1.5 cy cap	cy		\$2.29	0.00	\$0.00
02430-0010	Fill, spread dumped matl, by dozer, no compaction	cy		\$1.03	60,073.27	\$61,875.46
02430-0030	Fill, spread f, from stockpile w/2-1/2 cy FE LDR, 130 HP, 300'haul	cy		\$1.54	0.00	\$0.00
02450-0010	Excavate Trench, cont fig, no sht or dewater, 4'-6' D, 1.5 cy hyd bac	cy		\$1.66	0.00	\$0.00
02460-0010	Hauling, LCY, no loading, 16cy dump truck, 4 mile RT, 1.6 lds/hr	cy		\$2.84	25,745.69	\$73,117.75
02460-0020	Hauling, LCY, no loading, 12 cy Dump Truck, IDM, RT, .60 LDS/hr	cy		\$11.42	0.00	\$0.00
02460-0900	Loading trucks FE LDR, 3cy	cy		\$1.19	25,745.69	\$30,637.37
02470-0020	Soil Stabilization, geotex fabric, woven, HD, 600lb tensile set	cy		\$1.82	85,818.95	\$156,190.49
02480-0010	Rip-rap, random, machine placed for slope protection	cy		\$40.39	0.00	\$0.00
02500-0020	Bulkheads, reinforced concrete, 12' high	lf		\$289.29	0.00	\$0.00
02560-0990	Drainage, 8' X 8' precast Box culvert, 8' Section	lf		\$278.71	0.00	\$0.00
02630-100	Major Culvert Replacement	ea		\$100,000.00	0.00	\$0.00
02630-101	Minor Culvert Replacement	ea		\$35,000.00	0.00	\$0.00
02630-200	Internal Gated STR-1670 cfs	ea		\$82,000.00	0.00	\$0.00
02630-201	Internal Gated STR-1200 cfs	ea		\$65,000.00	0.00	\$0.00
02720-200	Temporary Construction (Shoo-fly: temporary by-pass)	ft		\$100.00	0.00	\$0.00
02720-200B	New Agr Bridges	EA		\$500,000.00	0.00	\$0.00
02740-310	Approach Reconstruction	ft		\$200.00	0.00	\$0.00
02840-0310	Seeding, mechanical seeding, 215 lb/acre	Ac		\$671.16	18.28	\$12,269.88
02840-0311	Hydro Seeding	Ac		\$2,130.00	0.00	\$0.00
02840-910	Traffic Control	LS		\$40,000.00	0.00	\$0.00
02850-100	Bridge Extension	sf		\$500.00	0.00	\$0.00
02850-102	Culvert Bridge	ls		\$750,000.00	0.00	\$0.00

Item No.	Description	UOM	Soft Cost (%)	Cost	Quantity	Total
02850-210A	Bridge Construction	sf		\$120.00	0.00	\$0.00
03300-001	12' X 22' precast concrete bldg + delivery	ea		\$25,902.13	0.00	\$0.00
05090-0010	Floor grating, alum, up to 300 sf, 1.5"1/8 bar, galvanized	sf		\$14.21	0.00	\$0.00
11010-001	Stilling Wells With Electrical and Telemetry	ea		\$30,000.00	0.00	\$0.00
11010-001	Stilling Well	pr		\$10,750.00	0.00	\$0.00
11040-001	Slide gate position sensor	ea		\$23,000.00	0.00	\$0.00
11040-0290	Hydraulic STR, slide gate, SS, ab & grout 96" X 96"	ea		\$17,875.33	0.00	\$0.00
11040-0380	Slide Gate-Hydraulic STR, stainless Stl , 72" X 72", elec oper	ea		\$38,331.82	0.00	\$0.00
11050-0290	Sluice Gate, Hydraulic STR, HD self cont with actuator, 84" X 60"	ea		\$46,029.05	0.00	\$0.00
15090-0220	Piping, Water dist, conc. Pipe, gasket, 72" dia	ea		\$10.17	0.00	\$0.00
15096-0120	Piping Drainage and Sewage, RCP, class 3, no gaskets, 72" dia	lf		\$152.32	0.00	\$0.00
15230-500	Farm Pump Station Relocation	ea		\$300,000.00	1.00	\$300,000.00
15230-501	Pump Station	cfs		\$6,000.00	0.00	\$0.00
15230-502	Retrofit Pump Station	cfs		\$500.00	0.00	\$0.00
15230-503	Telemetry for Pump Station	ea		\$500,000.00	0.00	\$0.00
15230-504	Extension of OH Powerline to Pump Station Area	Mi		\$95,000.00	0.15	\$14,393.94
16195-001	Power Distribution	mi		\$80,000.00	0.00	\$0.00
16195-001	Electrical Control Structure	ea		\$698,000.00	0.00	\$0.00
17150-001	Telemetry	ea		\$10,750.00	0.00	\$0.00
CNL-100	Canal Cross Enlargement	Ac		\$3,500.00	0.00	\$0.00
CNL-110	Canal Enlargement (average)	mi		\$1,122,500.00	0.00	\$0.00
CNL-200	Construction of borrow canal	cy		\$4.25	0.00	\$0.00
CNL-300	Conveyance Canal	Ac		\$3,500.00	0.00	\$0.00
CNL-301	Excavate Canal Extension	cy		\$6.50	0.00	\$0.00
CNL-400	Infill internal drainage canal	cy		\$2.75	0.00	\$0.00
DEG-100	Degrade Farm Roads	cy		\$2.25	0.00	\$0.00
DEG-101	Degrade Interior Agricultural Ditches	mi		\$20,000.00	0.00	\$0.00
DEG-102	Degrading Includes Balance Material Ac	Ac		\$1,000.00	0.00	\$0.00
PLG-01	Plug inflow	cy		\$3.50	0.00	\$0.00
SPILL-01	Spillway	cfs		\$1,200.00	0.00	\$0.00
STR 1	Control Structure	ea	Varies		0.00	\$0.00
STR 2	10' X 10' Gated Water Control Structure with Telemetric Control	ea		\$425,000.00	0.00	\$0.00
STR 3	6' X 10' Gated Water Control Inflow Structure	ea		\$475,000.00	0.00	\$0.00
STR 4	8' X 10' Gated Water Control Intermediate Structure	ea		\$375,000.00	0.00	\$0.00
STR 5	8'X8' Gated water control structure	ea		\$340,000.00	0.00	\$0.00
STR 6	9' X 10' gated water control structure	ea		\$80,950.00	0.00	\$0.00
STR 7	Construction of twin Barreled Water Control Structure	ea		\$950,000.00	0.00	\$0.00
STR 8	Precast 72" X 72" Gate Structure	ea		\$40,204.22	0.00	\$0.00
STR-EQ 1	Water Control STR Electrical and Telemetry	ea		\$50,950.00	0.00	\$0.00
USACE0815	Separation Levee	Ac		\$3,500.00	0.00	\$0.00
USACE-100	Construction of perimeter Levee	cy		\$3.50	0.00	\$0.00
USACE-101	Degrade Levee at Inflow Weir	cy		\$1.25	0.00	\$0.00
					Subtotal	\$2,084,452.56

Cont-1	Construction Cost Contingency	LS	30.0%		1.00	\$625,335.77
MISCTOOL1	Small Tools	LS	5%		1.00	\$104,222.63
MISCTOOL2	Equipment and Fuel Maintenance	LS	6%		1.00	\$125,067.15

TOTAL	\$2,939,078.11
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Land Cost						
	Land Acquisitions	Ac		\$5,000.00	168.8	\$844,239.34
Cont-2	Land Cost Contingency	LS	50.0%		1.00	\$422,119.67
LANDACQ	Land Acquisitions (appraisals, negotiations, etc...)	LS	2.5%		1.00	\$31,658.98
						\$1,298,017.99

Design Phase						
01107-200	Construction Management	LS	7.5%		1.00	\$220,430.86
01107-300	Engineering Planning and Design	LS	10.0%		1.00	\$293,907.81
01107-700	Program Management	LS	2.5%		1.00	\$73,476.95
						\$587,815.62

Operation and Maintenance						
15230-016	Power Supply to Pump Station	ea		\$2,000,000.00		\$0.00
						\$0.00

GRAND TOTAL	\$4,824,911.72
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EAA REGIONAL FEASIBILITY STUDY
South Florida Water Management District

ADA Project No. C110-05-003

PROBABLE PLANNING-LEVEL OPINION OF CAPITAL COST
MANLEY DITCH EXTENSION (MC-B5-EXT)

www.adaengineering.com

DATE: 10/03/05

Construction Cost						
Item No.	Description	UOM	Soft Cost (%)	Cost	Quantity	Total
01050-001	Temporary facilities	mo		\$2,500.00	0.00	\$0.00
01200-001	Rental-Crusher, Incl mob, de-mob and operation	ea		\$40,000.00	0.00	\$0.00
01200-001	Field Vehicles	ea		\$23,750.00	0.00	\$0.00
01250-001	Survey for Stage Monitor Set-up	ls		\$35,000.00	0.00	\$0.00
02060-0450	Site demo, pipe removal, sewer/water, no exc, 48"-6"0	cy		\$1.01	0.00	\$0.00
02070-1090	Equip, dml, 30" vertical turbine pump, motor, complete	ea		\$10,000.00	0.00	\$0.00
02170-0050	Saw cutting, concrete walls, rod reinforced, perim of depth	lf		\$9.46	0.00	\$0.00
02220-001	Remove Water structure	ea		\$50,000.00	0.00	\$0.00
02220-110	Building Demolition	sf		\$25.00	0.00	\$0.00
02230-100	Clearing and Grubbing	Ac		\$1,200.00	18.12	\$21,744.52
02230-100	Light Clearing	Ac		\$600.00	0.00	\$0.00
02230-102	Clear and Grub Levee Area	Ac		\$515.00	0.00	\$0.00
02230-200	Herbicide Treatment (for removal of exotic vegetation)	Ac		\$240.00	0.00	\$0.00
02230-300	Tree removal more 600 Tree/Ac	Ac		\$3,650.00	0.36	\$1,322.79
02230-310	Seeding and Mulching and Watering	Ac		\$1,200.00	0.00	\$0.00
02230-311	Seeding and Grassing	Ac		\$2,000.00	0.00	\$0.00
02240-0150	Dewatering, pumping 8 hr, unattended, 8" centrifugal pump	ea		\$238.49	0.00	\$0.00
02240-0160	Dewatering, pumping 8 hr, unattended, add per additional 8"pump	day		\$110.55	0.00	\$0.00
02240-100	Dewatering	cy		\$0.25	0.00	\$0.00
02300-100	Earthwork Construction to supply water to inflow canal	cy		\$4.00	0.00	\$0.00
02305-100	Mobilization/Demo of offices/equipment/personnel	LS		\$250,000.00	0.00	\$0.00
02315-100	Excavation (heavy) Includes Entrance Canal	cy		\$3.50	9,195.67	\$32,184.83
02315-101	Excavation (light) Includes Entrance Canal	cy		\$2.55	18,391.33	\$46,897.90
02315-320	Compact Spoil	cy		\$1.00	78,995.16	\$78,995.16
02315-416	Drilling and Blasting Canal	cy		\$1.00	18,391.33	\$18,391.33
02315-424	Excavate Existing Spoil	cy		\$1.00	9,195.67	\$9,195.67
02315-432	Peat Excavation	cy		\$0.60	18,391.33	\$11,034.80
02315-462	Cap rock Excavation	cy		\$2.00	18,391.33	\$36,782.67
02315-510	Place Spoil	cy		\$1.00	0.00	\$0.00
02320-0030	Backfill, FE loader, bulk up to 150' haul, no compaction	cy		\$1.40	0.00	\$0.00
02320-0030	Backfill, dozer backfill, bulk, up to 150' haul, no compaction	cy		\$1.00	0.00	\$0.00
02340-0010	Bedding, crushed stone 3/4" to 1/2"	cy		\$16.50	0.00	\$0.00
02340-0010	9" Bedding	cy		\$26.05	0.00	\$0.00
02360-0020	Compaction, sheepsfoot of wobbly wheel roller, 24" lift, select fill	cy		\$0.14	0.00	\$0.00
02360-0030	Compaction, Vibratory plate, 8" lifts, Subgrade	cy		\$1.15	0.00	\$0.00
02360-0031	Compaction, vibratory plate, 24" lifts, subgrade	cy		\$0.31	13,165.86	\$4,081.42
02360-0032	Compaction, vibratory plate, 24" lifts, Backfill	cy		\$0.31	13,165.86	\$4,081.42
02360-0040	Compaction, Vibratory plate, 8" lifts, Bedding	cy		\$1.15	0.00	\$0.00
02370-0050	Drilling and Blasting, bulk drilling and blasting, can vary greatly, avg	cy		\$2.00	0.00	\$0.00
02390-0010	Backhoe Excavation and Load Blasted Material	cy		\$1.56	18,391.33	\$28,690.48
02396-0050	Excavating and Loading Road, FE Loader, whl mtd, 1.5	cy		\$2.25	0.00	\$0.00
02396-0050	Excavate and Spread loose, 300' haul, FE LDR, whl mtd, 1.5 cy cap	cy		\$2.29	0.00	\$0.00
02430-0010	Fill, spread dumped matl, by dozer, no compaction	cy		\$1.03	9,216.10	\$9,492.58
02430-0030	Fill, spread f, from stockpile w/2-1/2 cy FE LDR, 130 HP, 300'haul	cy		\$1.54	0.00	\$0.00
02450-0010	Excavate Trench, cont ftg, no sht or dewater, 4'-6" D, 1.5 cy hyd bac	cy		\$1.66	0.00	\$0.00
02460-0010	Hauling, LCY, no loading, 16cy dump truck, 4 mile RT, 1.6 lds/hr	cy		\$2.84	3,949.76	\$11,217.31
02460-0020	Hauling, LCY, no loading, 12 cy Dump Truck, IDM, RT, .60 LDS/hr	cy		\$11.42	0.00	\$0.00
02460-0900	Loading trucks FE LDR, 3cy	cy		\$1.19	3,949.76	\$4,700.21
02470-0020	Soil Stabilization, geotex fabric, woven, HD, 600lb tensile set	cy		\$1.82	13,165.86	\$23,961.86
02480-0010	Rip-rap, random, machine placed for slope protection	cy		\$40.39	0.00	\$0.00
02500-0020	Bulkheads, reinforced concrete, 12' high	lf		\$289.29	0.00	\$0.00
02560-0990	Drainage, 8' X 8' precast Box culvert, 8' Section	lf		\$278.71	0.00	\$0.00
02630-100	Major Culvert Replacement	ea		\$100,000.00	0.00	\$0.00
02630-101	Minor Culvert Replacement	ea		\$35,000.00	0.00	\$0.00
02630-200	Internal Gated STR-1670 cfs	ea		\$82,000.00	0.00	\$0.00
02630-201	Internal Gated STR-1200 cfs	ea		\$65,000.00	0.00	\$0.00
02720-200	Temporary Construction (Shoo-fly: temporary by-pass)	ft		\$100.00	0.00	\$0.00
02720-200B	New Agr Bridges	EA		\$500,000.00	0.00	\$0.00
02740-310	Approach Reconstruction	ft		\$200.00	0.00	\$0.00
02840-0310	Seeding, mechanical seeding, 215 lb/acre	Ac		\$671.16	2.80	\$1,882.38
02840-0311	Hydro Seeding	Ac		\$2,130.00	0.00	\$0.00
02840-910	Traffic Control	LS		\$40,000.00	0.00	\$0.00

Item No.	Description	UOM	Soft Cost (%)	Cost	Quantity	Total
02850-100	Bridge Extension	sf		\$500.00	0.00	\$0.00
02850-102	Culvert Bridge	ls		\$750,000.00	0.00	\$0.00
02850-210A	Bridge Construction	sf		\$120.00	0.00	\$0.00
03300-001	12' X 22' precast concrete bldg + delivery	ea		\$25,902.13	0.00	\$0.00
05090-0010	Floor grating, alum, up to 300 sf, 1.5"1/8 bar, galvanized	sf		\$14.21	0.00	\$0.00
11010-001	Stilling Wells With Electrical and Telemetry	ea		\$30,000.00	0.00	\$0.00
11010-001	Stilling Well	pr		\$10,750.00	0.00	\$0.00
11040-001	Slide gate position sensor	ea		\$23,000.00	0.00	\$0.00
11040-0290	Hydraulic STR, slide gate, SS, ab & grout 96" X 96"	ea		\$17,875.33	0.00	\$0.00
11040-0380	Slide Gate-Hydraulic STR, stainless Stl , 72" X 72", elec oper	ea		\$38,331.82	0.00	\$0.00
11050-0290	Sluice Gate, Hydraulic STR, HD self cont with actuator, 84" X 60"	ea		\$46,029.05	0.00	\$0.00
15090-0220	Piping, Water dist, conc. Pipe, gasket, 72" dia	ea		\$10.17	0.00	\$0.00
15096-0120	Piping Drainage and Sewage, RCP, class 3, no gaskets, 72" dia	lf		\$152.32	0.00	\$0.00
15230-500	Farm Pump Station Relocation	ea		\$300,000.00	0.00	\$0.00
15230-501	Pump Station	cfs		\$6,000.00	0.00	\$0.00
15230-502	Retrofit Pump Station	cfs		\$500.00	0.00	\$0.00
15230-503	Telemetry for Pump Station	ea		\$500,000.00	0.00	\$0.00
15230-504	Extension of OH Powerline to Pump Station Area	Mi		\$95,000.00	0.00	\$0.00
16195-001	Power Distribution	mi		\$80,000.00	0.00	\$0.00
16195-001	Electrical Control Structure	ea		\$698,000.00	0.00	\$0.00
17150-001	Telemetry	ea		\$10,750.00	0.00	\$0.00
CNL-100	Canal Cross Enlargement	Ac		\$3,500.00	0.00	\$0.00
CNL-110	Canal Enlargement (average)	mi		\$1,122,500.00	0.00	\$0.00
CNL-200	Construction of borrow canal	cy		\$4.25	0.00	\$0.00
CNL-300	Conveyance Canal	Ac		\$3,500.00	0.00	\$0.00
CNL-301	Excavate Canal Extension	cy		\$6.50	0.00	\$0.00
CNL-400	Infill internal drainage canal	cy		\$2.75	0.00	\$0.00
DEG-100	Degrade Farm Roads	cy		\$2.25	0.00	\$0.00
DEG-101	Degrade Interior Agricultural Ditches	mi		\$20,000.00	0.00	\$0.00
DEG-102	Degrading Includes Balance Material Ac	Ac		\$1,000.00	0.00	\$0.00
PLG-01	Plug inflow	cy		\$3.50	0.00	\$0.00
SPILL-01	Spillway	cfs		\$1,200.00	0.00	\$0.00
STR 1	Control Structure	ea	Varies		0.00	\$0.00
STR 2	10' X 10' Gated Water Control Structure with Telemetric Control	ea		\$425,000.00	0.00	\$0.00
STR 3	6' X 10' Gated Water Control Inflow Structure	ea		\$475,000.00	0.00	\$0.00
STR 4	8' X 10' Gated Water Control Intermediate Structure	ea		\$375,000.00	0.00	\$0.00
STR 5	8'X8' Gated water control structure	ea		\$340,000.00	0.00	\$0.00
STR 6	9' X 10' gated water control structure	ea		\$80,950.00	0.00	\$0.00
STR 7	Construction of twin Barreled Water Control Structure	ea		\$950,000.00	0.00	\$0.00
STR 8	Precast 72" X 72" Gate Structure	ea		\$40,204.22	0.00	\$0.00
STR-EQ 1	Water Control STR Electrical and Telemetry	ea		\$50,950.00	0.00	\$0.00
USACE0815	Separation Levee	Ac		\$3,500.00	0.00	\$0.00
USACE-100	Construction of perimeter Levee	cy		\$3.50	0.00	\$0.00
USACE-101	Degrade Levee at Inflow Weir	cy		\$1.25	0.00	\$0.00
					Subtotal	\$344,657.33
Cont-1	Construction Cost Contingency	LS	30.0%		1.00	\$103,397.20
MISCTOOL1	Small Tools	LS	5%		1.00	\$17,232.87
MISCTOOL2	Equipment and Fuel Maintenance	LS	6%		1.00	\$20,679.44
					TOTAL	\$485,966.83
Land Cost						
	Land Acquisitions	Ac		\$5,000.00	25.9	\$129,518.43
Cont-2	Land Cost Contingency	LS	50.0%		1.00	\$64,759.22
LANDACQ	Land Acquisitions (appraisals, negotiations, etc.)	LS	2.5%		1.00	\$4,856.94
						\$199,134.59
Design Phase						
01107-200	Construction Management	LS	7.5%		1.00	\$36,447.51
01107-300	Engineering Planning and Design	LS	10.0%		1.00	\$48,596.68
01107-700	Program Management	LS	2.5%		1.00	\$12,149.17
						\$97,193.37
Operation and Maintenance						
15230-016	Power Supply to Pump Station	ea		\$2,000,000.00		\$0.00
						\$0.00
					GRAND TOTAL	\$782,294.79



EAA REGIONAL FEASIBILITY STUDY
South Florida Water Management District
ADA Project No. C110-05-003
PROBABLE PLANNING-LEVEL OPINION OF CAPITAL COST
STA 5 NORTH SEEPAGE

www.adaengineering.com

DATE: 10/03/05

Construction Cost						
Item No.	Description	UOM	Soft Cost (%)	Cost	Quantity	Total
01050-001	Temporary facilities	mo		\$2,500.00	0.00	\$0.00
01200-001	Rental-Crusher, Incl mob, de-mob and operation	ea		\$40,000.00	0.00	\$0.00
01200-001	Field Vehicles	ea		\$23,750.00	0.00	\$0.00
01250-001	Survey for Stage Monitor Set-up	ls		\$35,000.00	0.00	\$0.00
02060-0450	Site demo, pipe removal, sewer/water, no exc, 48"-6"0	cy		\$1.01	0.00	\$0.00
02070-1090	Equip, dml, 30" vertical turbine pump, motor, complete	ea		\$10,000.00	0.00	\$0.00
02170-0050	Saw cutting, concrete walls, rod reinforced, perim of depth	lf		\$9.46	0.00	\$0.00
02220-001	Remove Water structure	ea		\$50,000.00	0.00	\$0.00
02220-110	Building Demolition	sf		\$25.00	0.00	\$0.00
02230-100	Clearing and Grubbing	Ac		\$1,200.00	13.96	\$16,749.09
02230-100	Light Clearing	Ac		\$600.00	0.00	\$0.00
02230-102	Clear and Grub Levee Area	Ac		\$515.00	0.00	\$0.00
02230-200	Herbicide Treatment (for removal of exotic vegetation)	Ac		\$240.00	0.00	\$0.00
02230-300	Tree removal more 600 Tree/Ac	Ac		\$3,650.00	0.28	\$1,018.90
02230-310	Seeding and Mulching and Watering	Ac		\$1,200.00	0.00	\$0.00
02230-311	Seeding and Grassing	Ac		\$2,000.00	0.00	\$0.00
02240-0150	Dewatering, pumping 8 hr, unattended, 8" centrifugal pump	ea		\$238.49	0.00	\$0.00
02240-0160	Dewatering, pumping 8 hr, unattended, add per additional 8"pump	day		\$110.55	0.00	\$0.00
02240-100	Dewatering	cy		\$0.25	0.00	\$0.00
02300-100	Earthwork Construction to supply water to inflow canal	cy		\$4.00	0.00	\$0.00
02305-100	Mobilization/Demo of offices/equipment/personnel	LS		\$250,000.00	0.00	\$0.00
02315-100	Excavation (heavy) Includes Entrance Canal	cy		\$3.50	5,410.22	\$18,935.78
02315-101	Excavation (light) Includes Entrance Canal	cy		\$2.55	10,820.44	\$27,592.13
02315-320	Compact Spoil	cy		\$1.00	96,506.67	\$96,506.67
02315-416	Drilling and Blasting Canal	cy		\$1.00	10,820.44	\$10,820.44
02315-424	Excavate Existing Spoil	cy		\$1.00	5,410.22	\$5,410.22
02315-432	Peat Excavation	cy		\$0.60	10,820.44	\$6,492.27
02315-462	Cap rock Excavation	cy		\$2.00	10,820.44	\$21,640.89
02315-510	Place Spoil	cy		\$1.00	0.00	\$0.00
02320-0030	Backfill, FE loader, bulk up to 150' haul, no compaction	cy		\$1.40	0.00	\$0.00
02320-0030	Backfill, dozer backfill, bulk, up to 150' haul, no compaction	cy		\$1.00	0.00	\$0.00
02340-0010	Bedding, crushed stone 3/4" to 1/2"	cy		\$16.50	0.00	\$0.00
02340-0010	9" Bedding	cy		\$26.05	0.00	\$0.00
02360-0020	Compaction, sheepsfoot of wobbly wheel roller, 24" lift, select fill	cy		\$0.14	0.00	\$0.00
02360-0030	Compaction, Vibratory plate, 8" lifts, Subgrade	cy		\$1.15	0.00	\$0.00
02360-0031	Compaction, vibratory plate, 24" lifts, subgrade	cy		\$0.31	16,084.44	\$4,986.18
02360-0032	Compaction, vibratory plate, 24" lifts, Backfill	cy		\$0.31	16,084.44	\$4,986.18
02360-0040	Compaction, Vibratory plate, 8" lifts, Bedding	cy		\$1.15	0.00	\$0.00
02370-0050	Drilling and Blasting, bulk drilling and blasting, can vary greatly, avg	cy		\$2.00	0.00	\$0.00
02390-0010	Backhoe Excavation and Load Blasted Material	cy		\$1.56	10,820.44	\$16,879.89
02396-0050	Excavating and Loading Road, FE Loader , whl mtd, 1.5	cy		\$2.25	0.00	\$0.00
02396-0050	Excavate and Spread loose, 300' haul, FE LDR, whl mtd, 1.5 cy cap	cy		\$2.29	0.00	\$0.00
02430-0010	Fill, spread dumped matl, by dozer, no compaction	cy		\$1.03	11,259.11	\$11,596.88
02430-0030	Fill, spread f, from stockpile w/2-1/2 cy FE LDR, 130 HP, 300'haul	cy		\$1.54	0.00	\$0.00
02450-0010	Excavate Trench, cont ftg, no sht or dewater, 4'-6' D, 1.5 cy hyd bac	cy		\$1.66	0.00	\$0.00
02460-0010	Hauling, LCY, no loading, 16cy dump truck, 4 mile RT, 1.6 lds/hr	cy		\$2.84	4,825.33	\$13,703.95
02460-0020	Hauling, LCY, no loading, 12 cy Dump Truck, IDM, RT, .60 LDS/hr	cy		\$11.42	0.00	\$0.00
02460-0900	Loading trucks FE LDR, 3cy	cy		\$1.19	4,825.33	\$5,742.15
02470-0020	Soil Stabilization, geotex fabric, woven, HD, 600lb tensile set	cy		\$1.82	16,084.44	\$29,273.69
02480-0010	Rip-rap, random, machine placed for slope protection	cy		\$40.39	0.00	\$0.00
02500-0020	Bulkheads, reinforced concrete, 12' high	lf		\$289.29	0.00	\$0.00
02560-0990	Drainage, 8' X 8' precast Box culvert, 8' Section	lf		\$278.71	0.00	\$0.00
02630-100	Major Culvert Replacement	ea		\$100,000.00	0.00	\$0.00
02630-101	Minor Culvert Replacement	ea		\$35,000.00	0.00	\$0.00
02630-200	Internal Gated STR-1670 cfs	ea		\$82,000.00	0.00	\$0.00
02630-201	Internal Gated STR-1200 cfs	ea		\$65,000.00	0.00	\$0.00
02720-200	Temporary Construction (Shoo-fly: temporary by-pass)	ft		\$100.00	0.00	\$0.00
02720-200B	New Agr Bridges	EA		\$500,000.00	0.00	\$0.00
02740-310	Approach Reconstruction	ft		\$200.00	0.00	\$0.00
02840-0310	Seeding, mechanical seeding, 215 lb/acre	Ac		\$671.16	2.54	\$1,703.23
02840-0311	Hydro Seeding	Ac		\$2,130.00	0.00	\$0.00
02840-910	Traffic Control	LS		\$40,000.00	0.00	\$0.00
02850-100	Bridge Extension	sf		\$500.00	0.00	\$0.00
02850-102	Culvert Bridge	ls		\$750,000.00	0.00	\$0.00

Item No.	Description	UOM	Soft Cost (%)	Cost	Quantity	Total
02850-210A	Bridge Construction	sf		\$120.00	0.00	\$0.00
03300-001	12' X 22' precast concrete bldg + delivery	ea		\$25,902.13	0.00	\$0.00
05090-0010	Floor grating, alum, up to 300 sf, 1.5"1/8 bar, galvanized	sf		\$14.21	0.00	\$0.00
11010-001	Stilling Wells With Electrical and Telemetry	ea		\$30,000.00	0.00	\$0.00
11010-001	Stilling Well	pr		\$10,750.00	0.00	\$0.00
11040-001	Slide gate position sensor	ea		\$23,000.00	0.00	\$0.00
11040-0290	Hydraulic STR, slide gate, SS, ab & grout 96" X 96"	ea		\$17,875.33	0.00	\$0.00
11040-0380	Slide Gate-Hydraulic STR, stainless Stl , 72" X 72", elec oper	ea		\$38,331.82	0.00	\$0.00
11050-0290	Sluice Gate, Hydraulic STR, HD self cont with actuator, 84" X 60"	ea		\$46,029.05	0.00	\$0.00
15090-0220	Piping, Water dist, conc. Pipe, gasket, 72" dia	ea		\$10.17	0.00	\$0.00
15096-0120	Piping Drainage and Sewage, RCP, class 3, no gaskets, 72" dia	lf		\$152.32	0.00	\$0.00
15230-500	Farm Pump Station Relocation	ea		\$300,000.00	0.00	\$0.00
15230-501	Pump Station	cfs		\$6,000.00	0.00	\$0.00
15230-502	Retrofit Pump Station	cfs		\$500.00	0.00	\$0.00
15230-503	Telemetry for Pump Station	ea		\$500,000.00	0.00	\$0.00
15230-504	Extension of OH Powerline to Pump Station Area	Mi		\$95,000.00	0.00	\$0.00
16195-001	Power Distribution	mi		\$80,000.00	0.00	\$0.00
16195-001	Electrical Control Structure	ea		\$698,000.00	0.00	\$0.00
17150-001	Telemetry	ea		\$10,750.00	0.00	\$0.00
CNL-100	Canal Cross Enlargement	Ac		\$3,500.00	0.00	\$0.00
CNL-110	Canal Enlargement (average)	mi		\$1,122,500.00	0.00	\$0.00
CNL-200	Construction of borrow canal	cy		\$4.25	0.00	\$0.00
CNL-300	Conveyance Canal	Ac		\$3,500.00	0.00	\$0.00
CNL-301	Excavate Canal Extension	cy		\$6.50	0.00	\$0.00
CNL-400	Infill internal drainage canal	cy		\$2.75	0.00	\$0.00
DEG-100	Degrade Farm Roads	cy		\$2.25	0.00	\$0.00
DEG-101	Degrade Interior Agricultural Ditches	mi		\$20,000.00	0.00	\$0.00
DEG-102	Degrading Includes Balance Material Ac	Ac		\$1,000.00	0.00	\$0.00
PLG-01	Plug inflow	cy		\$3.50	0.00	\$0.00
SPILL-01	Spillway	cfs		\$1,200.00	0.00	\$0.00
STR 1	Control Structure	ea	Varies		0.00	\$0.00
STR 2	10' X 10' Gated Water Control Structure with Telemetric Control	ea		\$425,000.00	0.00	\$0.00
STR 3	6' X 10' Gated Water Control Inflow Structure	ea		\$475,000.00	0.00	\$0.00
STR 4	8' X 10' Gated Water Control Intermediate Structure	ea		\$375,000.00	0.00	\$0.00
STR 5	8'X8' Gated water control structure	ea		\$340,000.00	0.00	\$0.00
STR 6	9' X 10' gated water control structure	ea		\$80,950.00	0.00	\$0.00
STR 7	Construction of twin Barreled Water Control Structure	ea		\$950,000.00	0.00	\$0.00
STR 8	Precast 72" X 72" Gate Structure	ea		\$40,204.22	0.00	\$0.00
STR-EQ 1	Water Control STR Electrical and Telemetry	ea		\$50,950.00	0.00	\$0.00
USACE0815	Separation Levee	Ac		\$3,500.00	0.00	\$0.00
USACE-100	Construction of perimeter Levee	cy		\$3.50	0.00	\$0.00
USACE-101	Degrade Levee at Inflow Weir	cy		\$1.25	0.00	\$0.00
					Subtotal	\$294,038.54

Cont-1	Construction Cost Contingency	LS	30.0%		1.00	\$88,211.56
MISCTOOL1	Small Tools	LS	5%		1.00	\$14,701.93
MISCTOOL2	Equipment and Fuel Maintenance	LS	6%		1.00	\$17,642.31

TOTAL \$414,594.34

Land Cost						
	Land Acquisitions	Ac		\$5,000.00	21.3	\$106,675.76
Cont-2	Land Cost Contingency	LS	50.0%		1.00	\$53,337.88
LANDACQ	Land Acquisitions (appraisals, negotiations, etc..)	LS	2.5%		1.00	\$4,000.34
						\$164,013.98

Design Phase						
01107-200	Construction Management	LS	7.5%		1.00	\$31,094.58
01107-300	Engineering Planning and Design	LS	10.0%		1.00	\$41,459.43
01107-700	Program Management	LS	2.5%		1.00	\$10,364.86
						\$82,918.87

Operation and Maintenance						
15230-016	Power Supply to Pump Station	ea		\$2,000,000.00		\$0.00
						\$0.00

GRAND TOTAL \$661,527.19

EAA Regional Feasibility Study
South Florida Water Management District
ADA Project #: C110-05-003

Alternative 3 - Operations & Maintenance Cash Flow Analysis					
	Quantity	Cost(\$)	Contingency(%)	Total (\$)/yr	
Alt-1 Canal					
Vegetation Maintenance of Canals (per Ac)	65.1	\$33.77	30%	\$2,856.31	
New Levee Grading Maintenance (per mi)	5.4	\$3,605.90	30%	\$25,480.33	
Subtotal				\$28,336.64	
Cross Canal					
Vegetation Maintenance of Canals (per Ac)	53.7	\$33.77	30%	\$2,356.25	
Subtotal				\$2,356.25	
Hillsboro Canal					
Vegetation Maintenance of Canals (per Ac)	13.2	\$33.77	30%	\$580.51	
Subtotal				\$580.51	
Manley Ditch (MC-B5)					
Vegetation Maintenance of Canals (per Ac)	49	\$33.77	30%	\$2,152.54	
New Levee Grading Maintenance (per mi)	13.9	\$3,605.90	30%	\$65,126.65	
Subtotal				\$67,279.20	
Manley Ditch Extension (MC-B5-ext)					
Vegetation Maintenance of Canals (per Ac)	7.5	\$33.77	30%	\$330.23	
New Levee Grading Maintenance (per mi)	2.1	\$3,605.90	30%	\$9,996.81	
Subtotal				\$10,327.04	
STA 5 North Seepage					
Vegetation Maintenance of Canals (per Ac)	5	\$33.77	30%	\$214.86	
Levee Grading Maintenance (per mi)	1.5	\$3,605.90	30%	\$7,010.20	
Subtotal				\$7,225.06	
Sam Senter (OC-B1) Canal					
Vegetation Maintenance of Canals (per Ac)	27.1	\$33.77	30%	\$1,189.72	
New Levee Grading Maintenance (per mi)	5.4	\$3,605.90	30%	\$25,313.42	
Subtotal				\$26,503.14	
North New River					
Vegetation Maintenance of Canals (per Ac)	232.1	\$33.77	30%	\$10,189.42	
Subtotal				\$10,189.42	
Ocean Canal					
Vegetation Maintenance of Canals (per Ac)	37.8	\$33.77	30%	\$1,657.68	
Subtotal				\$1,657.68	

Compartment B Pump Station					
Pump Power Demands (per cfs)	3200	\$327.80	30%		\$1,363,648.00
Pump Station Building Maintenance (bldg)	2	\$10,927.00	30%		\$28,410.20
Pump Maintenance (per pump)	8	\$2,731.75	30%		\$28,410.20
Subtotal					\$1,420,468.40
Pump Station On STA-5 N Seepage					
Pump Power Demands (per cfs)	550	\$327.80	30%		\$234,377.00
Pump Station Building Maintenance (bldg)	1	\$10,927.00	30%		\$14,205.10
Pump Maintenance (per pump)	2	\$2,731.75	30%		\$7,102.55
Subtotal					\$255,684.65
Gated Water Control Structures					
7' X 7' Gated Water Control Intermediate Structure (S-5AE)	1	\$8,742.00	30%		\$11,364.60
9' X 14' Gated Water Control Structure (S-155A)	2	\$8,742.00	30%		\$22,729.20
20' X 10.5' Gated Water Control Structure (Hillsboro Gate)	2	\$8,742.00	30%		\$22,729.20
WPB Gate	3	\$8,742.00	30%		\$34,093.80
15' x 8' Gated Water Control Structure (MC-B5/A13-Inflow)	2	\$8,742.00	30%		\$22,729.20
Water Quality Monitoring	1	\$87,416.00	30%		\$34,092.24
Subtotal					\$147,738.24
Compartment B Works					
Vegetation Maintenance of STAs (per Ac)	8940	\$87.42	30%		\$1,015,995.24
New Levee Grading Maintenance (per mi)	35	\$3,605.90	30%		\$162,825.51
Monitoring STAs	1	\$1,311,240.00	30%		\$1,704,612.00
Gate Maintenance (test, oil, etc)	19	\$8,742.00	30%		\$215,927.40
STA Site Manager	1	\$125,000.00	0%		\$125,000.00
Subtotal					\$3,224,360.15
Compartment C Works					
Vegetation Maintenance of STAs (per Ac)	6990	\$87.42	30%		\$794,385.54
New Levee Grading Maintenance (per mi)	30	\$3,605.90	30%		\$142,760.86
Monitoring STAs	1	\$1,639,050.00	30%		\$2,130,765.00
Gate Maintenance (test, oil, etc)	23	\$8,742.00	30%		\$261,385.80
STA Site Manager	1	\$125,000.00	0%		\$125,000.00
Subtotal					\$3,454,297.20
Oversite Manager (HQ)					
O&M Staff (HQ)	1	\$200,000.00	0%		\$200,000.00
Subtotal					\$200,000.00
TOTALS					
Yearly Projected Cash Requirements for OM (w/o Cross Canal)				\$8,854,647.32	
Yearly Projected Cash Requirements for OM for Cross Canal Only				\$2,356.25	
Subtotal of OM				\$8,857,003.57	



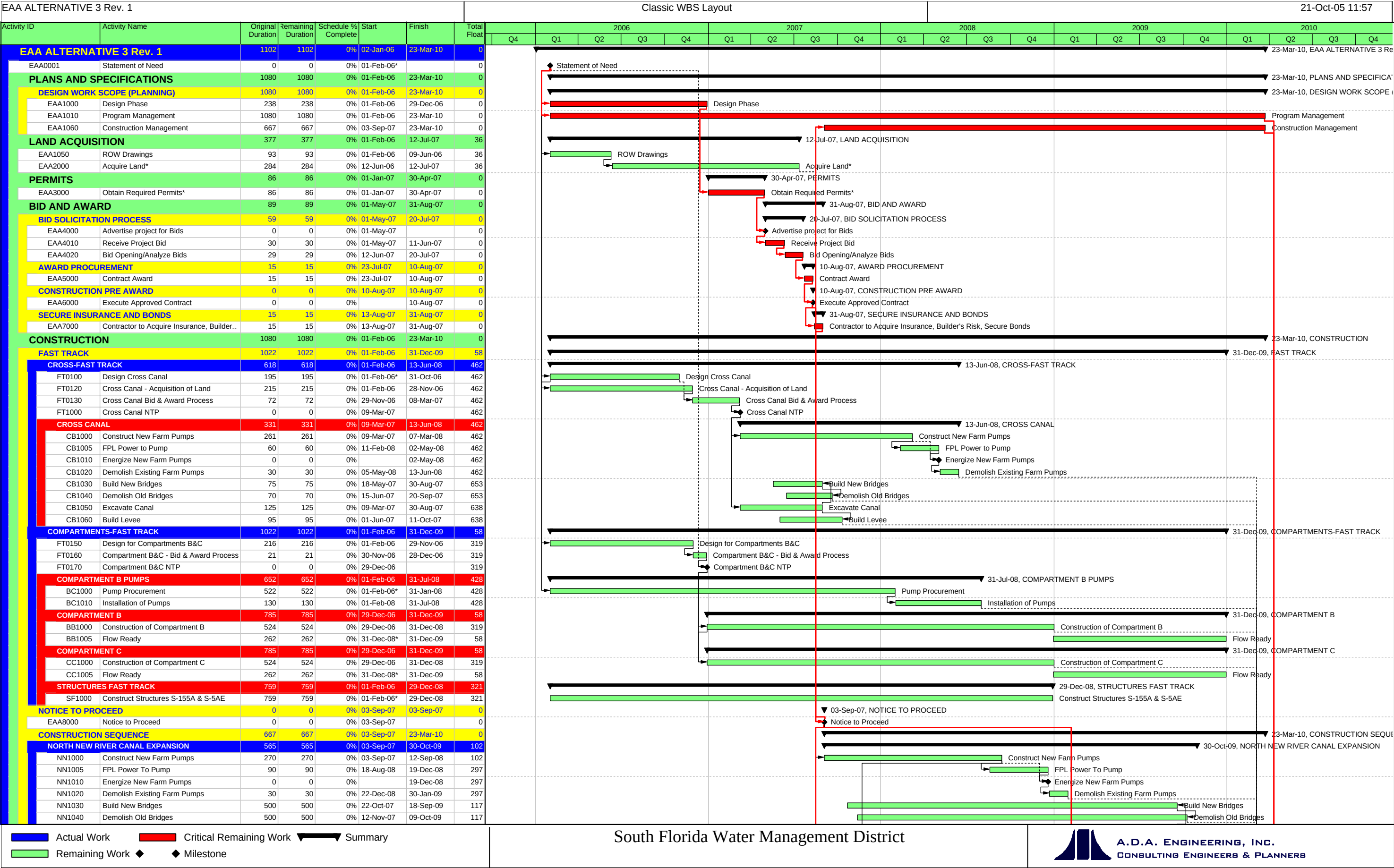
Alternative 3 - Projected Cash Flow Analysis	2006				2007				2008			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Design Phase Cost	3/31/06	6/30/06	9/30/06	12/31/06	3/31/07	6/30/07	9/30/07	12/31/07	3/31/08	6/30/08	9/30/08	12/31/08
Engineering Planning and Design	\$ 1,360,641.05	\$ 2,134,798.89	\$ 2,158,258.22	\$ 2,158,258.22	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 168,714.61	\$ 574,879.40	\$ 568,630.71	\$ 568,630.71	\$ 574,879.40	\$ 574,879.40
Program Management	\$ 74,515.58	\$ 116,912.38	\$ 118,197.13	\$ 118,197.13	\$ 115,627.63	\$ 116,912.38	\$ 118,197.13	\$ 118,197.13	\$ 116,912.38	\$ 116,912.38	\$ 118,197.13	\$ 118,197.13
Subtotal	\$ 1,435,156.64	\$ 2,251,711.27	\$ 2,276,455.35	\$ 2,276,455.35	\$ 115,627.63	\$ 116,912.38	\$ 286,911.74	\$ 693,076.54	\$ 685,543.10	\$ 685,543.10	\$ 693,076.54	\$ 693,076.54
Cross Canal												
Engineering Planning and Design	\$ 590,375.62	\$ 926,278.99	\$ 936,457.88	\$ 936,457.88	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction Management	\$ -	\$ -	\$ -	\$ -	\$ 98,880.65	\$ 409,006.31	\$ 413,500.88	\$ 413,500.88	\$ 409,006.31	\$ 409,006.31	\$ -	\$ -
Program Management	\$ 46,518.59	\$ 72,986.06	\$ 73,788.11	\$ 73,788.11	\$ 72,184.02	\$ 72,986.06	\$ 73,788.11	\$ 73,788.11	\$ 72,986.06	\$ 72,986.06	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ -	\$ 1,318,408.60	\$ 5,453,417.40	\$ 5,513,345.07	\$ 5,513,345.07	\$ 5,453,417.40	\$ 5,453,417.40	\$ -	\$ -
Land Acquisition and related costs	\$ 478,280.95	\$ 750,406.32	\$ 758,652.54	\$ 758,652.54	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual Operation and Maintenance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2.19	\$ 11.87	\$ 11.87
Subtotal	\$ 1,115,175.16	\$ 1,749,671.36	\$ 1,768,898.52	\$ 1,768,898.52	\$ 1,489,473.27	\$ 5,935,409.77	\$ 6,000,634.05	\$ 6,000,634.05	\$ 5,935,409.77	\$ 5,935,411.96	\$ 11.87	\$ 11.87
Construction Cost												
Alt-1 Canal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 455,441.90	\$ 1,551,876.11	\$ 1,535,007.89	\$ 1,535,007.89	\$ 1,551,876.11	\$ 1,551,876.11
Hillsboro	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 331,759.56	\$ 1,130,439.97	\$ 1,118,152.58	\$ -	\$ -	\$ -
Sam Senter (OC-B1)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 432,916.75	\$ 1,475,123.74	\$ 1,459,089.79	\$ 1,459,089.79	\$ 1,475,123.74	\$ 1,475,123.74
North New River	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,394,332.73	\$ 4,751,059.67	\$ 4,699,417.71	\$ 4,699,417.71	\$ 4,751,059.67	\$ 4,751,059.67
Ocean	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 266,847.27	\$ 909,257.36	\$ 899,374.13	\$ 899,374.13	\$ 909,257.36	\$ 909,257.36
Manley Ditch	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 134,957.67	\$ 459,855.76	\$ 454,857.33	\$ 454,857.33	\$ 459,855.76	\$ 459,855.76
Manley Ditch Extension	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,259.11	\$ 55,401.42	\$ 54,799.23	\$ 54,799.23	\$ 55,401.42	\$ 55,401.42
STA 5 North Seepage Canal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,881.53	\$ 43,892.61	\$ 43,415.52	\$ 43,415.52	\$ 43,892.61	\$ 43,892.61
Compartment B Pump Stations	\$ 2,444,785.95	\$ 3,835,784.85	\$ 3,877,936.33	\$ 3,877,936.33	\$ 3,793,633.37	\$ 3,835,784.85	\$ 3,877,936.33	\$ 3,877,936.33	\$ 3,835,784.85	\$ 3,835,784.85	\$ 3,877,936.33	\$ -
Compartment B Works	\$ -	\$ -	\$ -	\$ 105,683.06	\$ 4,755,737.70	\$ 4,808,579.23	\$ 4,861,420.77	\$ 4,861,420.77	\$ 4,808,579.23	\$ 4,808,579.23	\$ 4,861,420.77	\$ 4,861,420.77
Compartment C Works	\$ -	\$ -	\$ -	\$ 85,743.17	\$ 3,858,442.62	\$ 3,901,314.21	\$ 3,944,185.79	\$ 3,944,185.79	\$ 3,901,314.21	\$ 3,901,314.21	\$ 3,944,185.79	\$ 3,944,185.79
Hillsboro Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S-5AE Gate	\$ 40,960.45	\$ 64,265.54	\$ 64,971.75	\$ 64,971.75	\$ 63,559.32	\$ 64,265.54	\$ 64,971.75	\$ 64,971.75	\$ 64,265.54	\$ 64,265.54	\$ 64,971.75	\$ 64,971.75
S-155A Gate	\$ 23,210.92	\$ 36,417.14	\$ 36,817.33	\$ 36,817.33	\$ 36,016.95	\$ 36,417.14	\$ 36,817.33	\$ 36,817.33	\$ 36,417.14	\$ 36,417.14	\$ 36,817.33	\$ 36,817.33
West Palm Beach Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Pump station on STA 5 N-Seepage	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 205,063.29	\$ 698,734.18	\$ 691,139.24	\$ 691,139.24	\$ 698,734.18	\$ 698,734.18
Gate on Manley Ditch (Alt3-Inflow)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 137,755.10	\$ 469,387.76	\$ 464,285.71	\$ 464,285.71	\$ 469,387.76	\$ 469,387.76
Equip., demolition, 30" farm pumps	\$ 12,733.26	\$ 19,978.05	\$ 20,197.59	\$ 20,197.59	\$ 19,758.51	\$ 19,978.05	\$ 20,197.59	\$ 20,197.59	\$ 19,978.05	\$ 19,978.05	\$ 20,197.59	\$ -
Dewatering	\$ 441.68	\$ 692.99	\$ 700.60	\$ 700.60	\$ 685.37	\$ 692.99	\$ 700.60	\$ 700.60	\$ 692.99	\$ 692.99	\$ 700.60	\$ -
Rip-rap, random, machine placed for slope protection	\$ 2,468.62	\$ 3,873.18	\$ 3,915.75	\$ 3,915.75	\$ 3,830.62	\$ 3,873.18	\$ 3,915.75	\$ 3,915.75	\$ 3,873.18	\$ 3,873.18	\$ 3,915.75	\$ -
Bulkhead, reinforced concrete, 12' high	\$ 3,536.26	\$ 5,548.27	\$ 5,609.24	\$ 5,609.24	\$ 5,487.30	\$ 5,548.27	\$ 5,609.24	\$ 5,609.24	\$ 5,548.27	\$ 5,548.27	\$ 5,609.24	\$ -
G-349A Structure removal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 621.40	\$ 2,117.38	\$ 2,094.36	\$ 2,094.36	\$ 2,117.38	\$ 2,117.38
Subtotal	\$ 2,528,137.15	\$ 3,966,560.02	\$ 4,010,148.59	\$ 4,201,574.82	\$ 12,537,151.77	\$ 12,676,453.46	\$ 16,204,591.46	\$ 24,362,901.10	\$ 24,098,086.96	\$ 22,979,934.38	\$ 23,232,461.13	\$ 19,324,101.62
Land Acquisition and Related Costs												
Alt-1 Canal	\$ 249,425.08	\$ 391,339.35	\$ 395,639.78	\$ 395,639.78	\$ 387,038.92	\$ 391,339.35	\$ 395,639.78	\$ -	\$ -	\$ -	\$ -	\$ -
Hillsboro	\$ 35,590.04	\$ 55,839.55	\$ 56,453.17	\$ 56,453.17	\$ 55,225.93	\$ 55,839.55	\$ 56,453.17	\$ -	\$ -	\$ -	\$ -	\$ -
Sam Senter (OC-B1)	\$ 433,506.94	\$ 680,157.43	\$ 687,631.69	\$ 687,631.69	\$ 672,683.18	\$ 680,157.43	\$ 687,631.69	\$ -	\$ -	\$ -	\$ -	\$ -
North New River Canal	\$ 626,568.04	\$ 983,063.64	\$ 993,866.54	\$ 993,866.54	\$ 972,260.75	\$ 983,063.64	\$ 993,866.54	\$ -	\$ -	\$ -	\$ -	\$ -
Ocean Canal	\$ 132,015.69	\$ 207,128.06	\$ 209,404.19	\$ 209,404.19	\$ 204,851.93	\$ 207,128.06	\$ 209,404.19	\$ -	\$ -	\$ -	\$ -	\$ -
Manley Ditch	\$ 143,127.46	\$ 224,562.05	\$ 227,029.76	\$ 227,029.76	\$ 222,094.33	\$ 224,562.05	\$ 227,029.76	\$ -	\$ -	\$ -	\$ -	\$ -
Manley Ditch Extension	\$ 21,957.81	\$ 34,451.04	\$ 34,829.62	\$ 34,829.62	\$ 34,072.46	\$ 34,451.04	\$ 34,829.62	\$ -	\$ -	\$ -	\$ -	\$ -
STA5 N-Seepage	\$ 18,085.19	\$ 28,375.04	\$ 28,686.86	\$ 28,686.86	\$ 28,063.23	\$ 28,375.04	\$ 28,686.86	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal	\$ 1,660,276.24	\$ 2,604,916.17	\$ 2,633,541.62	\$ 2,633,541.62	\$ 2,576,290.72	\$ 2,604,916.17	\$ 2,633,541.62	\$ -	\$ -	\$ -	\$ -	\$ -
Operation and Maintenance												
Alt-1 Canal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 83.79
Hillsboro	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.41	\$ 2.89	\$ 2.92	\$ 2.92
Sam Senter (OC-B1)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
North New River	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ocean	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Manley Ditch	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Manley Ditch Extension	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
STA 5 North Seepage Canal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Hillsboro Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S-5AE Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1.24
S-155A Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2.49
West Palm Beach Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Pump station on STA 5 N-Seepage	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Gate on Manley Ditch Extension (Alt 3- Inflow)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water Quality Monitoring for Gates	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3.64
Compartment B Pump Stations	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,744.75	\$ 7,156.01
Compartment B Works	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Compartment C Works	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Oversight Manager	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 136.86	\$ 958.00	\$ 968.52	\$ 968.52
Annual Operation and Maintenance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 137.27	\$ 960.89	\$ 5,716.19	\$ 8,218.63
TOTALS												
Qtrly ProjectedExpenses	\$6,738,745	\$10,572,859	\$10,689,044	\$10,880,470	\$16,718,543	\$21,333,692	\$25,125,679	\$31,056,612	\$30,719,177	\$29,601,850	\$23,931,266	\$20,025,409
TOTAL Annual-to-date ProjectedI Expenses	\$6,738,745	\$17,311,604	\$28,000,648	\$38,881,118	\$55,599,662	\$76,933,354	\$102,059,032	\$133,115,644	\$163,834,821	\$193,436,672	\$217,367,937	\$237,393,346

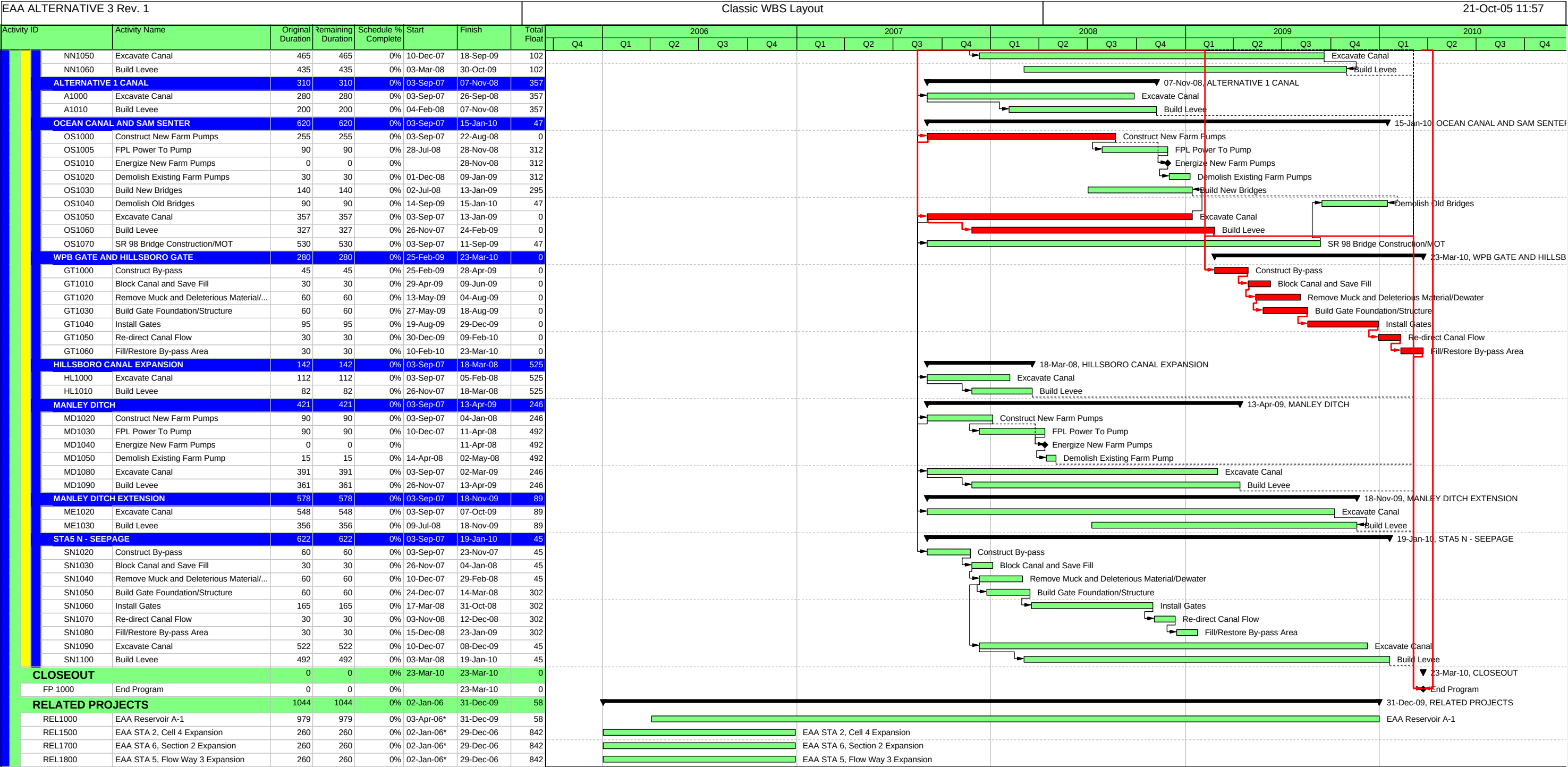
	2009				2010				2011				TOTAL
Alternative 3 - Projected Cash Flow Analysis	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Design Phase Cost	3/31/09	6/30/09	9/30/09	12/31/09	3/31/10	6/30/10	9/30/10	12/31/10	3/31/11	6/30/11	9/30/11	12/31/11	
Engineering Planning and Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,811,956.39
Construction Management	\$ 562,382.02	\$ 568,630.71	\$ 574,879.40	\$ 574,879.40	\$ 562,382.02	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,873,767.81
Program Management	\$ 115,627.63	\$ 116,912.38	\$ 118,197.13	\$ 118,197.13	\$ 115,627.63	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,951,537.44
Subtotal	\$ 678,009.65	\$ 685,543.10	\$ 693,076.54	\$ 693,076.54	\$ 678,009.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,637,261.64
Cross Canal													
Engineering Planning and Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,389,570.35
Construction Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,152,901.32
Program Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 705,799.28
Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 28,705,350.95
Land Acquisition and related costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,745,992.35
Annual Operation and Maintenance	\$ 11.61	\$ 11.74	\$ 11.87	\$ 11.87	\$ 11.61	\$ 11.74	\$ 11.87	\$ 11.87	\$ 11.61	\$ 11.74	\$ 11.87	\$ 11.87	\$ 167.22
Subtotal	\$ 11.61	\$ 11.74	\$ 11.87	\$ 11.87	\$ 11.61	\$ 11.74	\$ 11.87	\$ 11.87	\$ 11.61	\$ 11.74	\$ 11.87	\$ 11.87	\$ 37,699,781.47
Construction Cost													
Alt-1 Canal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$8,181,086
Hillsboro	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$2,580,352
Sam Senter (OC-B1)	\$ 1,443,055.84	\$ 1,459,089.79	\$ 1,475,123.74	\$ 1,475,123.74	\$ 1,443,055.84	\$ 1,459,089.79	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$16,531,006
North New River	\$ 4,647,775.76	\$ 4,699,417.71	\$ 4,751,059.67	\$ 4,751,059.67	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$43,895,660
Ocean	\$ 889,490.90	\$ 899,374.13	\$ 909,257.36	\$ 909,257.36	\$ 889,490.90	\$ 899,374.13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$10,189,612
Manley Ditch	\$ 449,858.89	\$ 454,857.33	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$3,328,956
Manley Ditch Extension	\$ 54,197.04	\$ 54,799.23	\$ 55,401.42	\$ 55,401.42	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$511,861
STA 5 North Seepage Canal	\$ 42,938.42	\$ 43,415.52	\$ 43,892.61	\$ 43,892.61	\$ 42,938.42	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$448,468
Compartment B Pump Stations	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$40,971,240
Compartment B Works	\$ 4,755,737.70	\$ 4,808,579.23	\$ 4,861,420.77	\$ 4,861,420.77	\$ 4,755,737.70	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$62,775,738
Compartment C Works	\$ 3,858,442.62	\$ 3,901,314.21	\$ 3,944,185.79	\$ 3,944,185.79	\$ 3,858,442.62	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$50,931,443
Hillsboro Gate	\$ 521,739.13	\$ 1,396,419.44	\$ 1,411,764.71	\$ 1,411,764.71	\$ 1,381,074.17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$6,122,762
S-5AE Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$751,412
S-155A Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$425,800
West Palm Beach Gate	\$ 347,826.09	\$ 930,946.29	\$ 941,176.47	\$ 941,176.47	\$ 920,716.11	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$4,081,841
Pump station on STA 5 N-Seepage	\$ 683,544.30	\$ 691,139.24	\$ 698,734.18	\$ 698,734.18	\$ 683,544.30	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$7,139,241
Gate on Manley Ditch (Alt3-Inflow)	\$ 459,183.67	\$ 464,285.71	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$3,397,959
Equip., demolition, 30" farm pumps	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$213,392
Dewatering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$7,402
Rip-rap, random, machine placed for slope protection	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$41,371
Bulkhead, reinforced concrete, 12' high	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$59,263
G-349A Structure removal	\$ 2,071.35	\$ 2,094.36	\$ 2,117.38	\$ 2,117.38	\$ 2,071.35	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$21,634
Subtotal	\$ 18,155,861.73	\$ 19,805,732.20	#####	#####	#####	\$ 2,358,463.92	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$262,607,500
Land Acquisition and Related Costs													
Alt-1 Canal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,606,062.06
Hillsboro	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 371,854.56
Sam Senter (OC-B1)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,529,400.06
North New River Canal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,546,555.70
Ocean Canal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,379,336.31
Manley Ditch	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,495,435.18
Manley Ditch Extension	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 229,421.22
STA5 N-Seepage	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 188,959.07
Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17,347,024.16
Operation and Maintenance													
Alt-1 Canal	\$ 139.65	\$ 141.20	\$ 142.75	\$ 142.75	\$ 139.65	\$ 141.20	\$ 142.75	\$ 142.75	\$ 139.65	\$ 141.20	\$ 142.75	\$ 142.75	\$1,783
Hillsboro	\$ 2.86	\$ 2.89	\$ 2.92	\$ 2.92	\$ 2.86	\$ 2.89	\$ 2.92	\$ 2.92	\$ 2.86	\$ 2.89	\$ 2.92	\$ 2.92	\$44
Sam Senter (OC-B1)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21.77	\$ 133.51	\$ 130.61	\$ 132.06	\$ 133.51	\$ 133.51	\$818
North New River	\$ -	\$ -	\$ -	\$ 34.59	\$ 50.22	\$ 50.77	\$ 51.33	\$ 51.33	\$ 50.22	\$ 50.77	\$ 51.33	\$ 51.33	\$442
Ocean	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1.36	\$ 8.35	\$ 8.35	\$ 8.17	\$ 8.26	\$ 8.35	\$ 8.35	\$51
Manley Ditch	\$ -	\$ 287.36	\$ 338.94	\$ 338.94	\$ 331.57	\$ 335.25	\$ 338.94	\$ 338.94	\$ 331.57	\$ 335.25	\$ 338.94	\$ 338.94	\$3,655
Manley Ditch Extension	\$ -	\$ -	\$ -	\$ 24.32	\$ 50.89	\$ 51.46	\$ 52.03	\$ 52.03	\$ 50.89	\$ 51.46	\$ 52.03	\$ 52.03	\$437
STA 5 North Seepage Canal	\$ -	\$ -	\$ -	\$ -	\$ 28.12	\$ 36.04	\$ 36.43	\$ 36.43	\$ 35.64	\$ 36.04	\$ 36.43	\$ 36.43	\$282
Hillsboro Gate	\$ -	\$ -	\$ -	\$ -	\$ 9.96	\$ 113.25	\$ 114.50	\$ 114.50	\$ 112.01	\$ 113.25	\$ 114.50	\$ 114.50	\$806
S-5AE Gate	\$ 56.01	\$ 56.63	\$ 57.25	\$ 57.25	\$ 56.01	\$ 56.63	\$ 57.25	\$ 57.25	\$ 56.01	\$ 56.63	\$ 57.25	\$ 57.25	\$683
S-155A Gate	\$ 112.02	\$ 113.26	\$ 114.50	\$ 114.50	\$ 112.02	\$ 113.26	\$ 114.50	\$ 114.50	\$ 112.02	\$ 113.26	\$ 114.50	\$ 114.50	\$1,365
West Palm Beach Gate	\$ -	\$ -	\$ -	\$ -	\$ 14.93	\$ 169.88	\$ 171.75	\$ 171.75	\$ 168.01	\$ 169.88	\$ 171.75	\$ 171.75	\$1,210
Pump station on STA 5 N-Seepage	\$ -	\$ -	\$ -	\$ -	\$ 994.06	\$ 1,274.08	\$ 1,288.08	\$ 1,288.08	\$ 1,260.08	\$ 1,274.08	\$ 1,288.08	\$ 1,288.08	\$9,955
Gate on Manley Ditch Extension (Alt 3- Inflow)	\$ -	\$ 97.08	\$ 114.50	\$ 114.50	\$ 112.02	\$ 113.26	\$ 114.50	\$ 114.50	\$ 112.02	\$ 113.26	\$ 114.50	\$ 114.50	\$1,235
Water Quality Monitoring for Gates	\$ 163.98	\$ 165.80	\$ 167.62	\$ 167.62	\$ 163.98	\$ 165.80	\$ 167.62	\$ 167.62	\$ 163.98	\$ 165.80	\$ 167.62	\$ 167.62	\$1,999
Compartment B Pump Stations	\$ 7,000.45	\$ 7,078.23	\$ 7,156.01	\$ 7,156.01	\$ 7,000.45	\$ 7,078.23	\$ 7,156.01	\$ 7,156.01	\$ 7,000.45	\$ 7,078.23	\$ 7,156.01	\$ 7,156.01	\$97,073
Compartment B Works	\$ -	\$ -	\$ -	\$ -	\$ 15,890.51	\$ 16,067.07	\$ 16,243.63	\$ 16,243.63	\$ 15,890.51	\$ 16,067.07	\$ 16,243.63	\$ 16,243.63	\$128,890
Compartment C Works	\$ -	\$ -	\$ -	\$ -	\$ 17,023.70	\$ 17,212.85	\$ 17,402.00	\$ 17,402.00	\$ 17,023.70	\$ 17,212.85	\$ 17,402.00	\$ 17,402.00	\$138,081
Oversight Manager	\$ 947.47	\$ 958.00	\$ 968.52	\$ 968.52	\$ 947.47	\$ 958.00	\$ 968.52	\$ 968.52	\$ 947.47	\$ 958.00	\$ 968.52	\$ 968.52	\$14,559
Annual Operation and Maintenance	\$ 8,422.42	\$ 8,900.45	\$ 9,063.03	\$ 9,121.94	\$ 42,928.40	\$ 43,963.06	\$ 44,564.64	\$ 44,564.64	\$ 43,595.85	\$ 44,080.25	\$ 44,564.64	\$ 44,564.64	\$403,367
TOTALS													
Qtrly ProjectedExpenses	\$18,842,305	\$20,500,187	\$19,796,286	\$19,796,344	\$14,698,021	\$2,402,439	\$44,577	\$44,577	\$43,607	\$44,092	\$44,577	\$44,577	\$333,694,934
TOTAL Annual-to-date ProjectedI Expenses	\$256,235,651	\$276,735,839	\$296,532,124	\$316,328,469	\$331,026,490	\$333,428,929	\$333,473,505	\$333,518,082	\$333,561,689	\$333,605,781	\$333,650,358	\$333,694,934	

Alternative 3 Net Present Worth

Present Date 2/1/06
Escalation Rate (Compounded Annually) 3% Annually
Discount Rate (Compounded Monthly) 6.375% Annually

Design Phase Cost	Begin	End	2006 Cost	years	Escalated Value	mid-Date	months	Present Worth Value
Engineering Planning and Design	2/1/06	12/29/06	\$ 7,765,037.73	0	\$ 7,765,037.73	7/16/06	5.44	\$ 7,544,373.13
Construction Management	9/3/07	3/23/10	\$ 5,823,778.30	4	\$ 6,554,713.78	12/12/08	34.36	\$ 5,463,832.30
Program Management	2/1/06	3/23/10	\$ 1,941,259.43	5	\$ 2,250,451.73	2/26/08	24.84	\$ 1,972,943.25
Subtotal			\$ 15,530,075.46					\$ 14,981,148.68
Cross Canal	Begin	End	2006 Cost	years	Escalated Value	mid-Date	months	Present Worth Value
Engineering Planning and Design	2/1/06	10/31/06	\$ 2,768,658.07	0	\$ 2,768,658.07	6/17/06	4.47	\$ 2,703,837.87
Construction Management	3/9/07	6/13/08	\$ 2,076,493.55	2	\$ 2,202,952.01	10/26/07	20.78	\$ 1,973,299.26
Program Management	2/1/06	6/13/08	\$ 692,164.52	2	\$ 734,317.34	4/8/07	14.19	\$ 681,145.56
Construction	3/9/07	6/13/08	\$ 27,686,580.67	2	\$ 29,372,693.43	10/26/07	20.78	\$ 26,310,656.79
Land Acquisition and related costs	2/1/06	11/28/06	\$ 2,473,866.98	0	\$ 2,473,866.98	7/1/06	4.93	\$ 2,410,063.80
Annual Operation and Maintenance	6/13/08	6/13/58	\$ 2,356.25	52	\$ 295,349.33	6/13/33	328.57	\$ 51,792.83
Subtotal			\$ 35,700,120.04					\$ 34,130,796.11
Construction Cost	Begin	End	2006 Cost	years	Escalated Value	mid-Date	months	Present Worth Value
Alt-1 Canal	9/3/07	11/7/08	\$ 7,270,202.22	2	\$ 7,712,957.54	4/5/08	26.12	\$ 6,716,072.91
Hillsboro	9/3/07	3/18/08	\$ 2,420,616.02	2	\$ 2,568,031.54	12/10/07	22.27	\$ 2,282,160.07
Sam Senter (OC-B1)	9/3/07	6/15/10	\$ 16,290,497.00	4	\$ 18,335,097.89	1/23/09	35.74	\$ 15,172,232.05
North New River	9/3/07	10/30/09	\$ 40,693,858.88	3	\$ 44,467,278.33	10/1/08	31.99	\$ 37,534,542.22
Ocean	9/3/07	6/15/10	\$ 10,041,363.91	4	\$ 11,301,643.54	1/23/09	35.74	\$ 9,352,072.15
Manley Ditch	9/3/07	4/13/09	\$ 2,939,078.11	3	\$ 3,211,610.00	6/23/08	28.70	\$ 2,758,535.51
Manley Ditch Extension	9/3/07	11/18/09	\$ 485,966.83	3	\$ 531,029.08	10/10/08	32.30	\$ 447,497.05
STA 5 North Seepage Canal	9/3/07	1/19/10	\$ 414,594.34	4	\$ 466,629.58	11/10/08	33.32	\$ 391,110.01
Compartment B Pump Stations	2/1/06	7/31/08	\$ 38,400,000.00	2	\$ 40,738,560.00	5/2/07	14.98	\$ 37,631,035.94
Compartment B Works	12/29/06	12/31/09	\$ 58,020,000.00	3	\$ 63,400,020.54	6/30/08	28.93	\$ 54,389,568.34
Compartment C Works	12/29/06	12/31/09	\$ 47,073,000.00	3	\$ 51,437,938.07	6/30/08	28.93	\$ 44,127,544.82
Hillsboro Gate	2/25/09	3/23/10	\$ 6,000,000.00	4	\$ 6,753,052.86	9/8/09	43.25	\$ 5,370,069.47
S-5AE Gate	2/1/06	12/29/08	\$ 750,000.00	2	\$ 795,675.00	7/17/07	17.46	\$ 725,378.18
S-155A Gate	2/1/06	12/29/08	\$ 425,000.00	2	\$ 450,882.50	7/17/07	17.46	\$ 411,047.63
West Palm Beach Gate	2/25/09	3/23/10	\$ 4,000,000.00	4	\$ 4,502,035.24	9/8/09	43.25	\$ 3,580,046.31
Pump station on STA 5 N-Seepage	9/3/07	1/19/10	\$ 6,600,000.00	4	\$ 7,428,358.15	11/10/08	33.32	\$ 6,226,148.89
Gate on Manley Ditch (Alt3-Inflow)	9/3/07	4/13/09	\$ 3,000,000.00	3	\$ 3,278,181.00	6/23/08	28.70	\$ 2,815,715.08
Equip., demolition, 30" farm pumps	2/1/06	7/31/08	\$ 200,000.00	2	\$ 212,180.00	5/2/07	14.98	\$ 195,994.98
Dewatering	2/1/06	7/31/08	\$ 6,937.50	2	\$ 7,359.99	5/2/07	14.98	\$ 6,798.58
Rip-rap, random, machine placed for slope protection	2/1/06	7/31/08	\$ 38,774.40	2	\$ 41,135.76	5/2/07	14.98	\$ 37,997.94
Bulkhead, reinforced concrete, 12' high	2/1/06	7/31/08	\$ 55,543.68	2	\$ 58,926.29	5/2/07	14.98	\$ 54,431.41
G-349A Structure removal	9/3/07	1/19/10	\$ 20,000.00	4	\$ 22,510.18	11/10/08	33.32	\$ 18,867.12
Subtotal			\$ 245,145,432.89					\$ 230,244,866.66
Land Acquisition and Related Costs	Begin	End	2006 Cost	years	Escalated Value	mid-Date	months	Present Worth Value
Alt-1 Canal	2/1/06	7/12/07	\$ 2,262,027.46	1	\$ 2,329,888.29	10/22/06	8.65	\$ 2,225,556.45
Hillsboro	2/1/06	7/12/07	\$ 322,764.85	1	\$ 332,447.80	10/22/06	8.65	\$ 317,560.87
Sam Senter (OC-B1)	2/1/06	7/12/07	\$ 3,931,459.46	1	\$ 4,049,403.24	10/22/06	8.65	\$ 3,868,071.94
North New River	2/1/06	7/12/07	\$ 5,682,323.92	1	\$ 5,852,793.64	10/22/06	8.65	\$ 5,590,706.95
Ocean	2/1/06	7/12/07	\$ 1,197,245.71	1	\$ 1,233,163.08	10/22/06	8.65	\$ 1,177,942.33
Manley Ditch	2/1/06	7/12/07	\$ 1,298,017.99	1	\$ 1,336,958.53	10/22/06	8.65	\$ 1,277,089.85
Manley Ditch Extension	2/1/06	7/12/07	\$ 199,134.59	1	\$ 205,108.63	10/22/06	8.65	\$ 195,923.92
STA 5 North Seepage Canal	2/1/06	7/12/07	\$ 164,013.98	1	\$ 168,934.40	10/22/06	8.65	\$ 161,369.55
Subtotal			\$ 15,056,987.97					\$ 14,814,221.85
Operation and Maintenance	Begin	End	2006 Cost	years	Escalated Value	mid-Date	months	Present Worth Value
Alt-1 Canal	11/7/08	11/7/58	\$ 28,336.64	52	\$ 3,551,915.00	11/7/33	333.40	\$ 607,121.10
Hillsboro	3/18/08	3/18/58	\$ 580.51	52	\$ 72,765.12	3/18/33	325.71	\$ 12,955.04
Sam Senter (OC-B1)	6/15/10	6/15/60	\$ 26,503.14	54	\$ 3,579,821.39	6/15/35	352.65	\$ 552,560.53
North New River	10/30/09	10/30/59	\$ 10,189.42	53	\$ 1,326,025.87	10/30/34	345.14	\$ 212,988.91
Ocean	6/15/10	6/15/60	\$ 1,657.68	54	\$ 223,906.07	6/15/35	352.65	\$ 34,560.85
Manley Ditch	4/13/09	4/13/59	\$ 67,279.20	53	\$ 8,755,545.90	4/13/34	338.56	\$ 1,456,191.94
Manley Ditch Extension	11/18/09	11/18/59	\$ 10,327.04	53	\$ 1,343,935.44	11/18/34	345.76	\$ 215,152.31
STA 5 North Seepage Canal	1/19/10	1/1/60	\$ 7,225.06	54	\$ 975,900.33	1/10/35	347.51	\$ 154,797.35
Hillsboro Gate	3/23/10	3/23/60	\$ 22,729.20	54	\$ 3,070,069.86	3/23/35	349.89	\$ 480,863.18
S-5AE Gate	12/29/08	12/29/58	\$ 11,364.60	52	\$ 1,424,519.45	12/29/33	335.11	\$ 241,294.40
S-155A Gate	12/29/08	12/29/58	\$ 22,729.20	52	\$ 2,849,038.91	12/29/33	335.11	\$ 482,588.80
West Palm Beach Gate	3/23/10	3/23/60	\$ 34,093.80	54	\$ 4,605,104.79	3/23/35	349.89	\$ 721,294.78
Pump station on STA 5 N-Seepage	1/19/10	1/19/60	\$ 255,684.65	54	\$ 34,535,739.81	1/19/35	347.80	\$ 5,469,478.73
Gate on Manley Ditch (Alt3-Inflow)	4/13/09	4/13/59	\$ 22,729.20	53	\$ 2,957,921.15	4/13/34	338.56	\$ 491,951.16
Water Quality Monitoring for Gates	12/29/08	3/23/60	\$ 34,092.24	54	\$ 4,604,894.08	8/11/34	342.51	\$ 750,026.82
Compartment B Pump Stations	7/31/08	7/31/58	\$ 1,420,468.40	52	\$ 178,051,569.59	7/31/33	330.15	\$ 30,963,362.71
Compartment B Works	12/31/09	12/31/59	\$ 3,224,360.15	53	\$ 419,610,152.13	12/31/34	347.18	\$ 66,674,620.01
Compartment C Works	12/31/09	12/31/59	\$ 3,454,297.20	53	\$ 449,533,584.05	12/31/34	347.18	\$ 71,429,351.14
Oversight Manager	3/18/08	3/23/60	\$ 200,000.00	54	\$ 27,014,323.94	3/21/34	337.81	\$ 4,510,965.38
Annual Operation and Maintenance			\$ 8,854,647.32					\$ 185,462,125.11
TOTALS								
TOTAL Net Present Worth								\$ 479,633,158.41





Actual Work

Remaining Work

Critical Remaining Work

Milestone

Summary

South Florida Water Management District

A.D.A. ENGINEERING, INC.

CONSULTING ENGINEERS & PLANNERS

ALT 3
15



A.D.A. Engineering, Inc.
Consulting Engineers & Planners



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EAA REGIONAL FEASIBILITY STUDY
South Florida Water Management District
ADA Project No. C110-05-003
PROBABLE PLANNING-LEVEL OPINION OF CAPITAL COST
ALTERNATIVE 5

DATE: 10/03/05

DESIGN PHASE

ITEM NO.	DESCRIPTION	UOM	COST	QUANTITY	TOTAL
1	Alternative 1 Canal	ls	\$1,454,040	1.00	\$1,454,040
2	Sam Senter (OC-B1)	ls	\$2,676,939	1.00	\$2,676,939
3	Ocean Canal	ls	\$2,008,273	1.00	\$2,008,273
4	Hillsboro Canal	ls	\$484,123	1.00	\$484,123
5	Cross Canal	ls	\$5,537,316	1.00	\$5,537,316
6	North New River Canal	ls	\$8,138,772	1.00	\$8,138,772
DESIGN PHASE TOTAL					\$20,299,464

CONSTRUCTION COST

ITEM NO.	DESCRIPTION	UOM	COST	QUANTITY	TOTAL
1	Alternative 1 Canal	ls	\$7,270,202	1.00	\$7,270,202
2	*Sam Senter (OC-B1)	ls	\$16,290,497	1.00	\$16,290,497
3	Ocean Canal	ls	\$10,041,364	1.00	\$10,041,364
4	Hillsboro Canal	ls	\$2,420,616	1.00	\$2,420,616
5	Cross Canal	ls	\$27,686,581	1.00	\$27,686,581
6	North New River Canal	ls	\$40,693,859	1.00	\$40,693,859
02070-1090	Equip, demolition, 30" farm pumps	ea	\$10,000	20.00	\$200,000
02240-100	Dewatering	cy	\$0.25	27,750.00	\$6,938
02480-0010	Rip-rap, random, machine placed for slope protection	cy	\$40.39	960.00	\$38,774
02500-0020	Bulkheads, reinforced concrete, 12' high	lf	\$289.29	192.00	\$55,544
	7' X 7' Gate (Str. S-5AE)	ea	\$375,000	2.00	\$750,000
	9' X 14' Gate (Str. S-155A)	ea	\$425,000	1.00	\$425,000
	20'x10.5' Gate (West Palm Beach and Hillsboro canals)	ea	\$2,000,000	5.00	\$10,000,000
CONSTRUCTION COST TOTAL					\$115,879,374

COMPARTMENT B/C

ITEM NO.	DESCRIPTION	UOM	COST	QUANTITY	TOTAL
15230-501	Compartment B Pump Stations (2-1600 cfs P.S.)	cfs	\$12,000	3,200.00	\$38,400,000
	*Compartment B works	ls	\$58,020,000	1.00	\$58,020,000
	Compartment C works	ls	\$47,073,000	1.00	\$47,073,000
	5Ft dia. Culvert (RCP + Excavation) for Siphon	lf	\$750	2,300.00	\$1,725,000
COMPARTMENT B/C TOTAL					\$145,218,000

LAND ACQUISITION

ITEM NO.	DESCRIPTION	UOM	COST	QUANTITY	TOTAL
1	Alternative 1 Canal	ls	\$2,262,027	1.00	\$2,262,027
2	Sam Senter (OC-B1)	ls	\$3,931,459	1.00	\$3,931,459
3	Ocean Canal	ls	\$1,197,246	1.00	\$1,197,246
4	Hillsboro Canal	ls	\$322,765	1.00	\$322,765
5	Cross Canal	ls	\$2,473,867	1.00	\$2,473,867
6	North New River Canal	ls	\$5,682,324	1.00	\$5,682,324
LAND ACQUISITION TOTAL					\$15,869,688

TOTAL PROBABLE COST

\$297,266,526

* Sam Senter cost includes US 98 Bridge (4 lane divided)

** Compartment B works cost includes the structure removal of G-336G located in L-6 canal



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EAA REGIONAL FEASIBILITY STUDY
South Florida Water Management District
ADA Project No. C110-05-003
CUT AND FILL COST
ALTERNATIVE 5

DATE: 10/03/05

The costs presented below are a part of the total cost for **Alternative 5**. These data are presented as additional information to assist readers in understanding cut and fill unit cost.

ITEM NO.	DESCRIPTION	EXCAVATION COST	VOLUME (CY)	COST PER CY
1	Alternative 1 Canal	\$4,992,931	1,593,448	\$3.13
2	Sam Senter (OC-B1)	\$6,724,350	2,278,307	\$2.95
3	Ocean Canal	\$4,120,129	1,295,327	\$3.18
4	Hillsboro Canal	\$1,634,556	505,608	\$3.23
5	Cross Canal	\$12,464,032	4,100,081	\$3.04
6	North New River Canal	\$22,026,977	6,778,943	\$3.25
TOTAL		\$51,962,976	16,551,714	\$3.13

Average cost/CY

OPERATION AND MAINTENANCE COST

Alternative 5 (2006 cost) **\$8,703,512**

* For total cost per canal see summary of Probable Planning-Level opinion of Capital Cost

EAA Regional Feasibility Study
South Florida Water Management District
ADA Project #: C110-05-003

Alternative 5 - Operations & Maintenance Cash Flow Analysis					
Alt-1 Canal	Quantity	Cost(\$)	Contingency(%)	Total (\$)/yr	
Vegetation Maintenance of Canals (per Ac)	65.1	\$33.77	30%	\$2,856.31	
New Levee Grading Maintenance (per mi)	5.4	\$3,605.90	30%	\$25,480.33	
Subtotal				\$28,336.64	
Cross Canal					
Vegetation Maintenance of Canals (per Ac)	53.7	\$33.77	30%	\$2,356.25	
Subtotal				\$2,356.25	
Hillsboro Canal					
Vegetation Maintenance of Canals (per Ac)	13.2	\$33.77	30%	\$580.51	
Subtotal				\$580.51	
Sam Senter (OC-B1) Canal					
Vegetation Maintenance of Canals (per Ac)	27.1	\$33.77	30%	\$1,187.77	
New Levee Grading Maintenance (per mi)	5.4	\$3,605.90	30%	\$25,520.28	
Subtotal				\$26,708.05	
North New River					
Vegetation Maintenance of Canals (per Ac)	232.1	\$33.77	30%	\$10,189.55	
Subtotal				\$10,189.55	
Ocean Canal					
Vegetation Maintenance of Canals (per Ac)	37.8	\$33.77	30%	\$1,657.68	
Subtotal				\$1,657.68	
Compartment B Pump Station					
Pump Power Demands (per cfs)	3200	\$327.80	30%	\$1,363,648.00	
Pump Station Building Maintenance (bldg)	2	\$10,927.00	30%	\$28,410.20	
Pump Maintenance (per pump)	8	\$2,731.75	30%	\$28,410.20	
Subtotal				\$1,420,468.40	
Gated Water Control Structures					
7' X 7' Gated Water Control Intermediate Structure (S-5AE)	1	\$8,742.00	30%	\$11,364.60	
9' X 14' Gated Water Control Structure (S-155A)	2	\$8,742.00	30%	\$22,729.20	
20' X 10.5' Gated Water Control Structure (Hillsboro Gate)	2	\$8,742.00	30%	\$22,729.20	
WPB Gate	3	\$8,742.00	30%	\$34,093.80	
Water Quality Monitoring	1	\$87,416.00	30%	\$113,640.80	
Subtotal				\$204,557.60	

Compartment B Works					
Vegetation Maintenance of STAs (per Ac)	8940	\$87.42	30%		\$1,015,995.24
Levee Grading Maintenance (per mi)	35	\$3,605.90	30%		\$162,825.51
Monitoring STAs	1	\$1,311,240.00	30%		\$1,704,612.00
Gate Maintenance (test, oil, etc)	19	\$8,742.00	30%		\$215,927.40
STA Site Manager	1	\$125,000.00	0%		\$125,000.00
Subtotal					\$3,224,360.15

Compartment C Works					
Vegetation Maintenance of STAs (per Ac)	6990	\$87.42	30%		\$794,385.54
Levee Grading Maintenance (per mi)	30	\$3,605.90	30%		\$142,760.86
Monitoring STAs	1	\$1,639,050.00	30%		\$2,130,765.00
Gate Maintenance (test, oil, etc)	23	\$8,742.00	30%		\$261,385.80
STA Site Manager	1	\$125,000.00	0%		\$125,000.00
Subtotal					\$3,454,297.20

Siphon					
Siphon	1	\$100,000.00	30%		\$130,000.00
Subtotal					\$130,000.00

Oversite Manager (HQ)					
O&M Staff (HQ)	1	\$200,000.00	0%		\$200,000.00
Subtotal					\$200,000.00

TOTALS					
Yearly Projected Cash Requirements for OM (w/o Cross Canal)		\$8,701,155.78			
Yearly Projected Cash Requirements for OM for Cross Canal Only		\$2,356.25			

Subtotal of OM		\$8,703,512.03			
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	2006				2007				2008			
Alternative 5 - Projected Cash Flow Analysis	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Design Phase Cost	3/31/2006	6/30/2006	9/30/2006	12/31/2006	3/31/2007	6/30/2007	9/30/2007	12/31/2007	3/31/2008	6/30/2008	9/30/2008	12/31/2008
Engineering Planning and Design	\$ 1,293,360.36	\$ 2,029,237.81	\$ 2,051,537.13	\$ 2,051,537.13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 160,372.04	\$ 546,452.89	\$ 540,513.18	\$ 540,513.18	\$ 546,452.89	\$ 546,452.89
Program Management	\$ 70,830.95	\$ 111,131.32	\$ 112,352.55	\$ 112,352.55	\$ 109,910.10	\$ 111,131.32	\$ 112,352.55	\$ 112,352.55	\$ 111,131.32	\$ 111,131.32	\$ 112,352.55	\$ 112,352.55
Subtotal	\$ 1,364,191.32	\$ 2,140,369.14	\$ 2,163,889.68	\$ 2,163,889.68	\$ 109,910.10	\$ 111,131.32	\$ 272,724.59	\$ 658,805.44	\$ 651,644.51	\$ 651,644.51	\$ 658,805.44	\$ 658,805.44
Cross Canal												
Engineering Planning and Design	\$ 590,375.62	\$ 926,278.99	\$ 936,457.88	\$ 936,457.88	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ -	\$ 98,880.65	\$ 409,006.31	\$ 413,500.88	\$ 413,500.88	\$ 409,006.31	\$ 409,006.31	\$ -	\$ -
Program Management	\$ 46,518.59	\$ 72,986.06	\$ 73,788.11	\$ 73,788.11	\$ 72,184.02	\$ 72,986.06	\$ 73,788.11	\$ 73,788.11	\$ 72,986.06	\$ 72,986.06	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ -	\$ 1,318,408.60	\$ 5,453,417.40	\$ 5,513,345.07	\$ 5,513,345.07	\$ 5,453,417.40	\$ 5,453,417.40	\$ -	\$ -
Land Acquisition and related costs	\$ 478,280.95	\$ 750,406.32	\$ 758,652.54	\$ 758,652.54	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual Operation and Maintenance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2.19	\$ 11.87	\$ 11.87
Subtotal	\$ 1,115,175.16	\$ 1,749,671.36	\$ 1,768,898.52	\$ 1,768,898.52	\$ 1,489,473.27	\$ 5,935,409.77	\$ 6,000,634.05	\$ 6,000,634.05	\$ 5,935,409.77	\$ 5,935,411.96	\$ 11.87	\$ 11.87
Construction Cost												
Alt-1 Canal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 455,441.90	\$ 1,551,876.11	\$ 1,535,007.89	\$ 1,535,007.89	\$ 1,551,876.11	\$ 1,551,876.11
Hillsboro	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 331,759.56	\$ 1,130,439.97	\$ 1,118,152.58	\$ -	\$ -	\$ -
Sam Senter (OC-B1)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 508,489.50	\$ 1,732,630.89	\$ 1,713,797.95	\$ 1,713,797.95	\$ 1,732,630.89	\$ 1,732,630.89
North New River	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,394,332.73	\$ 4,751,059.67	\$ 4,699,417.71	\$ 4,699,417.71	\$ 4,751,059.67	\$ 4,751,059.67
Ocean	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 313,429.86	\$ 1,067,983.21	\$ 1,056,374.70	\$ 1,056,374.70	\$ 1,067,983.21	\$ 1,067,983.21
Compartment B Pump Stations	\$ 2,444,785.95	\$ 3,835,784.85	\$ 3,877,936.33	\$ 3,877,936.33	\$ 3,793,633.37	\$ 3,835,784.85	\$ 3,877,936.33	\$ 3,877,936.33	\$ 3,835,784.85	\$ 3,835,784.85	\$ 3,877,936.33	\$ -
Compartment B Works	\$ -	\$ -	\$ -	\$ 105,683.06	\$ 4,755,737.70	\$ 4,808,579.23	\$ 4,861,420.77	\$ 4,861,420.77	\$ 4,808,579.23	\$ 4,808,579.23	\$ 4,861,420.77	\$ 4,861,420.77
Compartment C Works	\$ -	\$ -	\$ -	\$ 85,743.17	\$ 3,858,442.62	\$ 3,901,314.21	\$ 3,944,185.79	\$ 3,944,185.79	\$ 3,901,314.21	\$ 3,901,314.21	\$ 3,944,185.79	\$ 3,944,185.79
5-foot Diam. Culverts for Siphons	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 751,380.37	\$ 973,619.63
Hillsboro Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S-5AE Gate	\$ 40,960.45	\$ 64,265.54	\$ 64,971.75	\$ 64,971.75	\$ 63,559.32	\$ 64,265.54	\$ 64,971.75	\$ 64,971.75	\$ 64,265.54	\$ 64,265.54	\$ 64,971.75	\$ 64,971.75
S-155A Gate	\$ 23,210.92	\$ 36,417.14	\$ 36,817.33	\$ 36,817.33	\$ 36,016.95	\$ 36,417.14	\$ 36,817.33	\$ 36,817.33	\$ 36,417.14	\$ 36,417.14	\$ 36,817.33	\$ 36,817.33
West Palm Beach Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equip., demolition, 30" farm pumps	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Dewatering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Rip-rap, random, machine placed for slope protection	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Bulkhead, reinforced concrete, 12' high	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal	\$ 2,508,957.32	\$ 3,936,467.53	\$ 3,979,725.41	\$ 4,171,151.64	#####	#####	\$ 15,788,785.51	\$ 23,019,321.82	\$ 22,769,111.80	\$ 21,650,959.23	\$ 22,640,262.22	\$ 18,984,565.15
Land Aqcusition and Related Costs												
Alt-1 Canal	\$ 249,425.08	\$ 391,339.35	\$ 395,639.78	\$ 395,639.78	\$ 387,038.92	\$ 391,339.35	\$ 395,639.78	\$ -	\$ -	\$ -	\$ -	\$ -
Hillsboro	\$ 35,590.04	\$ 55,839.55	\$ 56,453.17	\$ 56,453.17	\$ 55,225.93	\$ 55,839.55	\$ 56,453.17	\$ -	\$ -	\$ -	\$ -	\$ -
Sam Senter (OC-B1)	\$ 433,506.94	\$ 680,157.43	\$ 687,631.69	\$ 687,631.69	\$ 672,683.18	\$ 680,157.43	\$ 687,631.69	\$ -	\$ -	\$ -	\$ -	\$ -
North New River	\$ 626,568.04	\$ 983,063.64	\$ 993,866.54	\$ 993,866.54	\$ 972,260.75	\$ 983,063.64	\$ 993,866.54	\$ -	\$ -	\$ -	\$ -	\$ -
Ocean	\$ 132,015.69	\$ 207,128.06	\$ 209,404.19	\$ 209,404.19	\$ 204,851.93	\$ 207,128.06	\$ 209,404.19	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal	\$ 1,477,105.78	\$ 2,317,528.04	\$ 2,342,995.38	\$ 2,342,995.38	\$ 2,292,060.70	\$ 2,317,528.04	\$ 2,342,995.38	\$ -	\$ -	\$ -	\$ -	\$ -
Operation and Maintenance												
Alt-1 Canal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19.92	\$ 139.42	\$ 140.95	\$ 140.95
Hillsboro	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sam Senter (OC-B1)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
North New River	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ocean	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5.38	\$ 8.11
5-foot Diam. Culverts for Siphons	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Hillsboro Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2.43
S-5AE Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1.24
S-155A Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
West Palm Beach Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water Quality Monitoring for Gates	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Compartment B Pump Stations	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Compartment B Works	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Compartment C Works	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Oversight Manager	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19.92	\$ 139.42	\$ 146.33	\$ 152.74
TOTALS												
Qtrly ProjectedExpenses	\$6,465,430	\$10,144,036	\$10,255,509	\$10,446,935	\$16,398,834	\$21,010,430	\$24,405,140	\$29,678,761	\$29,356,186	\$28,238,155	\$23,299,226	\$19,643,535
TOTAL Annual-to-date Projectedl Expenses	\$6,465,430	\$16,609,466	\$26,864,975	\$37,311,910	\$53,710,744	\$74,721,174	\$99,126,314	\$128,805,075	\$158,161,261	\$186,399,416	\$209,698,642	\$229,342,177

2009									
2010									
Alternative 5 - Projected Cash Flow Analysis	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Design Phase Cost	3/31/2009	6/30/2009	9/30/2009	12/31/2009	3/31/2010	6/30/2010	9/30/2010	12/31/2010	
Engineering Planning and Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,425,672.44
Construction Management	\$ 534,573.48	\$ 540,513.18	\$ 546,452.89	\$ 546,452.89	\$ 534,573.48	\$ -	\$ -	\$ -	\$ 5,583,322.99
Program Management	\$ 109,910.10	\$ 111,131.32	\$ 112,352.55	\$ 112,352.55	\$ 109,910.10	\$ -	\$ -	\$ -	\$ 1,855,038.24
Subtotal	\$ 644,483.58	\$ 651,644.51	\$ 658,805.44	\$ 658,805.44	\$ 644,483.58	\$ -	\$ -	\$ -	\$ 14,864,033.67
Cross Canal									
Engineering Planning and Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,389,570.35
Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,152,901.32
Program Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 705,799.28
Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 28,705,350.95
Land Acquisition and related costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,745,992.35
Annual Operation and Maintenance	\$ 11.61	\$ 11.74	\$ 11.87	\$ 11.87	\$ 11.61	\$ 11.74	\$ 11.87	\$ 11.87	\$ 120.12
Subtotal	\$ 11.61	\$ 11.74	\$ 11.87	\$ 11.87	\$ 11.61	\$ 11.74	\$ 11.87	\$ 11.87	\$ 37,699,734.37
Construction Cost									
Alt-1 Canal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$8,181,086
Hillsboro	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$2,580,352
Sam Senter (OC-B1)	\$ 1,694,965.01	\$ 1,713,797.95	\$ 1,732,630.89	\$ 1,732,630.89	\$ 1,694,965.01	\$ -	\$ -	\$ -	\$17,702,968
North New River	\$ 4,647,775.76	\$ 4,699,417.71	\$ 4,751,059.67	\$ 4,751,059.67	\$ -	\$ -	\$ -	\$ -	\$43,895,660
Ocean	\$ 1,044,766.19	\$ 1,056,374.70	\$ 1,067,983.21	\$ 1,067,983.21	\$ 1,044,766.19	\$ -	\$ -	\$ -	\$10,912,002
Compartment B Pump Stations	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$40,971,240
Compartment B Works	\$ 4,755,737.70	\$ 4,808,579.23	\$ 4,861,420.77	\$ 4,861,420.77	\$ 4,755,737.70	\$ -	\$ -	\$ -	\$62,775,738
Compartment C Works	\$ 3,858,442.62	\$ 3,901,314.21	\$ 3,944,185.79	\$ 3,944,185.79	\$ 3,858,442.62	\$ -	\$ -	\$ -	\$50,931,443
5-foot Diam. Culverts for Siphons	\$ 952,453.99	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$2,677,454
Hillsboro Gate	\$ 521,739.13	\$ 1,396,419.44	\$ 1,411,764.71	\$ 1,411,764.71	\$ 1,381,074.17	\$ -	\$ -	\$ -	\$6,122,762
S-5AE Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$751,412
S-155A Gate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$425,800
West Palm Beach Gate	\$ 347,826.09	\$ 930,946.29	\$ 941,176.47	\$ 941,176.47	\$ 920,716.11	\$ -	\$ -	\$ -	\$4,081,841
Equip., demolition, 30" farm pumps	\$ 17,391.30	\$ 46,547.31	\$ 47,058.82	\$ 47,058.82	\$ 46,035.81	\$ -	\$ -	\$ -	\$204,092
Dewatering	\$ 603.26	\$ 1,614.61	\$ 1,632.35	\$ 1,632.35	\$ 1,596.87	\$ -	\$ -	\$ -	\$7,079
Rip-rap, random, machine placed for slope protection	\$ 3,371.69	\$ 9,024.22	\$ 9,123.39	\$ 9,123.39	\$ 8,925.05	\$ -	\$ -	\$ -	\$39,568
Bulkhead, reinforced concrete, 12' high	\$ 4,829.89	\$ 12,927.05	\$ 13,069.10	\$ 13,069.10	\$ 12,784.99	\$ -	\$ -	\$ -	\$56,680
Subtotal	\$ 17,849,902.62	\$ 18,576,962.73	\$ 18,781,105.17	\$ 18,781,105.17	\$ 13,725,044.52	\$ -	\$ -	\$ -	\$ 252,317,178.80
Land Acqusition and Related Costs									
Alt-1 Canal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,606,062.06
Hillsboro	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 371,854.56
Sam Senter (OC-B1)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,529,400.06
North New River	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,546,555.70
Ocean	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,379,336.31
Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,433,208.69
Operation and Maintenance									
Alt-1 Canal	\$ 137.88	\$ 139.42	\$ 140.95	\$ 140.95	\$ 137.88	\$ 139.42	\$ 140.95	\$ 140.95	\$1,560
Hillsboro	\$ -	\$ -	\$ -	\$ -	\$ 2.47	\$ 3.00	\$ 3.04	\$ 3.04	\$12
Sam Senter (OC-B1)	\$ -	\$ -	\$ -	\$ 90.29	\$ 131.07	\$ 132.53	\$ 133.98	\$ 133.98	\$622
North New River	\$ -	\$ -	\$ -	\$ -	\$ 42.02	\$ 50.99	\$ 51.55	\$ 51.55	\$196
Ocean	\$ 7.94	\$ 8.03	\$ 8.11	\$ 8.11	\$ 7.94	\$ 8.03	\$ 8.11	\$ 8.11	\$78
5-foot Diam. Culverts for Siphons	\$ 640.67	\$ 647.79	\$ 654.91	\$ 654.91	\$ 640.67	\$ 647.79	\$ 654.91	\$ 654.91	\$5,197
Hillsboro Gate	\$ 109.32	\$ 110.54	\$ 111.75	\$ 111.75	\$ 109.32	\$ 110.54	\$ 111.75	\$ 111.75	\$889
S-5AE Gate	\$ 56.01	\$ 56.63	\$ 57.25	\$ 57.25	\$ 56.01	\$ 56.63	\$ 57.25	\$ 57.25	\$456
S-155A Gate	\$ -	\$ -	\$ -	\$ -	\$ 10.21	\$ 116.12	\$ 117.39	\$ 117.39	\$361
West Palm Beach Gate	\$ -	\$ -	\$ -	\$ -	\$ 14.93	\$ 169.88	\$ 171.75	\$ 171.75	\$528
Water Quality Monitoring for Gates	\$ -	\$ -	\$ -	\$ -	\$ 51.04	\$ 580.55	\$ 586.93	\$ 586.93	\$1,805
Compartment B Pump Stations	\$ -	\$ -	\$ -	\$ -	\$ 7,204.81	\$ 7,284.86	\$ 7,364.92	\$ 7,364.92	\$29,220
Compartment B Works	\$ 15,579.13	\$ 15,752.23	\$ 15,925.33	\$ 15,925.33	\$ 15,579.13	\$ 15,752.23	\$ 15,925.33	\$ 15,925.33	\$126,364
Compartment C Works	\$ -	\$ -	\$ -	\$ -	\$ 1,520.04	\$ 17,290.49	\$ 17,480.49	\$ 17,480.49	\$53,772
Oversight Manager	\$ -	\$ -	\$ -	\$ 673.66	\$ 977.89	\$ 988.75	\$ 999.62	\$ 999.62	\$4,640
Subtotal	\$ 16,530.95	\$ 16,714.63	\$ 16,898.31	\$ 17,662.26	\$ 26,485.45	\$ 43,331.80	\$ 43,807.97	\$ 43,807.97	\$ 225,697.74
TOTALS									
Qtrly ProjectedExpenses	\$18,510,929	\$19,245,334	\$19,456,821	\$19,457,585	\$14,396,025	\$43,344	\$43,820	\$43,820	\$320,539,853
TOTAL Annual-to-date Projectedl Expenses	\$247,853,106	\$267,098,439	\$286,555,260	\$306,012,845	\$320,408,870	\$320,452,214	\$320,496,033	\$320,539,853	

Alternative 5 Net Present Worth

Present Date

2/1/06

Escalation Rate (Compounded Annually)

3% Annually

Discount Rate (Compounded Monthly)

6.375% Annually

Design Phase Cost	Begin	End	2006 Cost	years	Escalated Value	mid-Date	months	Present Worth Value
Engineering Planning and Design	2/1/06	12/29/06	\$ 7,381,073.80	0	\$ 7,381,073.80	7/16/06	5.44	\$ 7,171,320.57
Construction Management	9/3/07	3/23/10	\$ 5,535,805.35	4	\$ 6,230,597.69	12/12/08	34.36	\$ 5,193,657.89
Program Management	2/1/06	3/23/10	\$ 1,845,268.45	5	\$ 2,139,171.88	2/26/08	24.84	\$ 1,875,385.58
Subtotal			\$ 14,762,147.61					\$ 14,240,364.04
Cross Canal	Begin	End	2006 Cost	years	Escalated Value	mid-Date	months	Present Worth Value
Engineering Planning and Design	2/1/06	10/31/06	\$ 2,768,658.07	0	\$ 2,768,658.07	6/17/06	4.47	\$ 2,703,837.87
Construction Management	3/9/07	6/13/08	\$ 2,076,493.55	2	\$ 2,202,952.01	10/26/07	20.78	\$ 1,973,299.26
Program Management	2/1/06	6/13/08	\$ 692,164.52	2	\$ 734,317.34	4/8/07	14.19	\$ 681,145.56
Construction	3/9/07	6/13/08	\$ 27,686,580.67	2	\$ 29,372,693.43	10/26/07	20.78	\$ 26,310,656.79
Land Acquisition and related costs	2/1/06	11/28/06	\$ 2,473,866.98	0	\$ 2,473,866.98	7/1/06	4.93	\$ 2,410,063.80
Annual Operation and Maintenance	6/13/08	6/13/58	\$ 2,356.25	52	\$ 295,349.33	6/13/33	328.57	\$ 51,792.83
Subtotal			\$ 35,700,120.04					\$ 34,130,796.11
Construction Cost	Begin	End	2006 Cost	years	Escalated Value	mid-Date	months	Present Worth Value
Alt-1 Canal	9/3/07	11/7/08	\$ 7,270,202.22	2	\$ 7,712,957.54	4/5/08	26.12	\$ 6,716,072.91
Hillsboro	9/3/07	3/18/08	\$ 2,420,616.02	2	\$ 2,568,031.54	12/10/07	22.27	\$ 2,282,160.07
Sam Senter (OC-B1)	9/3/07	1/15/10	\$ 16,290,497.00	4	\$ 18,335,097.89	11/8/08	33.25	\$ 15,373,091.24
North New River	9/3/07	10/30/09	\$ 40,693,858.88	3	\$ 44,467,278.33	10/1/08	31.99	\$ 37,534,542.22
Ocean	9/3/07	1/15/10	\$ 10,041,363.91	4	\$ 11,301,643.54	11/8/08	33.25	\$ 9,475,880.54
Compartment B Pump Stations	2/1/06	7/31/08	\$ 38,400,000.00	2	\$ 40,738,560.00	5/2/07	14.98	\$ 37,631,035.94
Compartment B Works	12/29/06	12/31/09	\$ 58,020,000.00	3	\$ 63,400,020.54	6/30/08	28.93	\$ 54,389,568.34
Compartment C Works	12/29/06	12/31/09	\$ 47,073,000.00	3	\$ 51,437,938.07	6/30/08	28.93	\$ 44,127,544.82
5-foot Diam. Culverts for Siphons	7/21/08	12/31/08	\$ 1,725,000.00	2	\$ 1,830,052.50	10/10/08	32.30	\$ 1,542,181.29
Hillsboro Gate	2/25/09	3/23/10	\$ 6,000,000.00	4	\$ 6,753,052.86	9/8/09	43.25	\$ 5,370,069.47
S-5AE Gate	2/1/06	12/29/08	\$ 750,000.00	2	\$ 795,675.00	7/17/07	17.46	\$ 725,378.18
S-155A Gate	2/1/06	12/29/08	\$ 425,000.00	2	\$ 450,882.50	7/17/07	17.46	\$ 411,047.63
West Palm Beach Gate	2/25/09	3/23/10	\$ 4,000,000.00	4	\$ 4,502,035.24	9/8/09	43.25	\$ 3,580,046.31
Equip., demolition, 30" farm pumps	2/25/09	3/23/10	\$ 200,000.00	4	\$ 225,101.76	9/8/09	43.25	\$ 179,002.32
Dewatering	2/25/09	3/23/10	\$ 6,937.50	4	\$ 7,808.22	9/8/09	43.25	\$ 6,209.14
Rip-rap, random, machine placed for slope protection	2/25/09	3/23/10	\$ 38,774.40	4	\$ 43,640.93	9/8/09	43.25	\$ 34,703.54
Bulkheads, reinforced concrete, 12' high	2/25/09	3/23/10	\$ 55,543.68	4	\$ 62,514.90	9/8/09	43.25	\$ 49,712.24
Subtotal			\$ 233,410,793.61					\$ 219,428,246.18
Land Acquisition and Related Costs	Begin	End	2006 Cost	years	Escalated Value	mid-Date	months	Present Worth Value
Alt-1 Canal	2/1/06	7/12/07	\$ 2,262,027.46	1	\$ 2,329,888.29	10/22/06	8.65	\$ 2,225,556.45
Hillsboro	2/1/06	7/12/07	\$ 322,764.85	1	\$ 332,447.80	10/22/06	8.65	\$ 317,560.87
Sam Senter (OC-B1)	2/1/06	7/12/07	\$ 3,931,459.46	1	\$ 4,049,403.24	10/22/06	8.65	\$ 3,868,071.94
North New River	2/1/06	7/12/07	\$ 5,682,323.92	1	\$ 5,852,793.64	10/22/06	8.65	\$ 5,590,706.95
Ocean	2/1/06	7/12/07	\$ 1,197,245.71	1	\$ 1,233,163.08	10/22/06	8.65	\$ 1,177,942.33
Subtotal			\$ 13,395,821.41					\$ 13,179,838.53
Operation and Maintenance	Begin	End	2006 Cost	years	Escalated Value	mid-Date	months	Present Worth Value
Alt-1 Canal	3/18/08	11/7/58	\$ 28,336.64	52	\$ 3,687,659.19	7/13/33	329.56	\$ 643,301.89
Hillsboro	1/15/10	3/18/58	\$ 580.51	52	\$ 72,765.12	2/15/34	336.69	\$ 12,222.80
Sam Senter (OC-B1)	10/30/09	1/15/60	\$ 26,708.05	54	\$ 3,743,233.88	12/7/34	346.41	\$ 597,226.88
North New River	1/15/10	10/30/59	\$ 10,189.55	53	\$ 1,376,319.17	12/7/34	346.41	\$ 219,589.49
Ocean	7/31/08	1/15/60	\$ 1,657.68	54	\$ 232,330.66	4/23/34	338.91	\$ 38,569.82
5-foot Diam. Culverts for Siphons	12/31/08	12/31/58	\$ 130,000.00	52	\$ 16,295,120.71	12/31/33	335.18	\$ 2,759,212.41
Hillsboro Gate	12/29/08	3/23/60	\$ 22,729.20	54	\$ 3,185,583.03	8/11/34	342.51	\$ 518,855.09
S-5AE Gate	12/29/08	12/29/58	\$ 11,364.60	52	\$ 1,424,519.45	12/29/33	335.11	\$ 241,294.40
S-155A Gate	3/23/10	12/29/58	\$ 22,729.20	52	\$ 2,849,038.91	8/10/34	342.49	\$ 464,080.54
West Palm Beach Gate	3/23/10	3/23/60	\$ 34,093.80	54	\$ 4,778,374.55	3/23/35	349.89	\$ 748,433.91
Water Quality Monitoring for Gates	3/23/10	12/29/58	\$ 113,640.80	52	\$ 15,927,186.35	8/10/34	342.49	\$ 2,594,382.69
Compartment B Pump Stations	12/31/09	7/31/58	\$ 1,420,468.40	52	\$ 178,051,569.59	4/16/34	338.66	\$ 29,597,446.52
Compartment B Works	12/31/08	12/31/59	\$ 3,224,360.15	53	\$ 419,610,152.13	7/1/34	341.18	\$ 68,828,300.28
Compartment C Works	3/23/10	12/31/59	\$ 3,454,297.20	53	\$ 449,533,584.05	2/10/35	348.53	\$ 70,921,019.79
Oversight Manager	10/30/09	3/23/60	\$ 200,000.00	54	\$ 28,030,753.66	1/10/35	347.52	\$ 4,445,851.89
Annual Operation and Maintenance			\$ 8,701,155.78					\$ 182,629,788.40
TOTALS								
TOTAL Net Present Worth								\$ 463,609,033.26

